

ccgagtaaaa tggtattgtc gctcgacttt gctacgagct tcggttttaa aattcgagcg 120
 tcacgatata ttacgggaact caatcagact tccgagtga atgttattgt cgttcgaatt 180
 tgctacgagc ttcggtttta aaattcgagc gtctcgatat attacgggac tcaataggac 240
 ttcccagtga aatgggtattg tcgttcgact ttgctacgag ctccggttnt aaaattcgag 300
 cgtcacgata tattacggga ctcaatcaga ctccgagtg aaatgttatt ggccgctgaa 360
 tttgctacga gcttcggttt aaaattcgag cgtctcgata ta 402

<210> 16825
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 16825

atatatcgac gtgctcgaaa ttcaaaccga agctcctaag caattcgaac gaccataact 60
 ttgactctga agtccgattg agtccccgca tatatcgaga cgctcgaaat ttaataccga 120
 agctcggcga aaattaaaag acaataactt tgtactcgga tgtccgattg agtgccgtaa 180
 catatcgaga cgctcgaaat ttaaaactga agctcgagaa aattcgaacg acaataactt 240
 ttcactcgga agtcagaatg agtcccgtaa tatatcgaac gtcctcaaatt taaaaccgat 300
 gctcgcggaa attcttacac aataactttt cactcgaagt gcgattgagt cccgcaatat 360
 atcga 365

<210> 16826
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 16826

cgacactatg aaactcagct ttgacgatat gttagaactg cttttgttgt tacactccaa 60
 ctggtggaga agcatgccag aaataccgaa gtatttatat gcgtcctcag ggtctatata 120
 tcagtttgaa ggagaagtaa gcttttttca tggcactgct ctttatgttt tttctcttgg 180
 ctttgagaaa atactaagta tttgaattct tcagaggcaa gatccttgaa gtactgaaaa 240
 actggccaga aaagagtatt caagttattg ttgcgactga tggtgagcgt atattaggac 300
 ttggagatct tggttgccaa gtaaaatata gtgttagtct cctatatctg cattacacac 360

agagacatta gagtaacata attttt

386

<210> 16827

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16827

agcttgtgag ctnatgntaa aaaaaagatg ttgaagaagt tgacttgact atcaagtaca 60

agaaaagctt ttggtctagt gataagcact tgattccaag tgtttcacca ataatgaca 120

agagtttcat aagtccaatt tcatgatcaa gtaaaaggct tacagttttc ccatttgtgg 180

taatgatggg gacatttttg ccattgattt gtgtcacctc tccatcaatc catgcatect 240

caggatcctc aacccaaacc tgtgatccaa cgatgatgtt cacaggtgtt ccctgaacca 300

atcacaacaa ggcaagaaaa agtgttactg ttaacacatg atctgacagc aaaaatgtgg 360

gaaggatcca acaacaacca acaaacagcg cagagaagac tcct 404

<210> 16828

<211> 401

<212> DNA

<213> Glycine max

<400> 16828

agcttgcac atagtctatc gacaataaca ttctactcgg aagtccgatt gagtcccgt 60

atatatcgag aactcgaac tttaaaaccg aagctcgtg cagacgctaa cgacaataac 120

atttctactg gaagtccgat tgagtccgt aatatatcga gacgctcgaa atttaaaacc 180

gaagctcgta gcaaattcta acgacaataa catttctactc ggaagtccga ttgagtccg 240

taatatatcg agacgctcag aatttaaaac cgaagctcgc agcaaagtct aacgacaata 300

acatttctact cggaagttcg atggagtccc gtaatatatc gagacgctcg aaattaaaac 360

cgaagctcgc agcacatgct aacgacaata acatttctact c 401

<210> 16829

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16829

gagcgtctcg atatgttacg ggacttcttc ggacttccga gtgaattggt attgtcattc 60
gaatttgcta cgagcttcgg ttttaaattt cgagcgtctc gatttattag gactcaatcg 120
gacttccgag tgaaaagtta ttggcgntcg aatttgctac gatcttcggt ttgaaatttc 180
gagcgtctca ttatgttacg ggacttaatc ggacttccga gtgaaaagtt attgtcgttt 240
gaaattgcta cgatcttcga ttttaaattt cgagggtctc aatatgttac gggactcaat 300
cggacttccg agtgacaagt tattgtcggt cgaatttgc accagcttct attntaaatt 360
tcgagcgtct cgatatatta cgcgactcac tcggaatttc gagtgaaaag ttatt 415

<210> 16830

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16830

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tcaagaaatt ntgcgtttct tgattcgaca accctagtgc tatgtgatgg acaatagaat 120
ctataccctt tggactttnt agcatatcca atgaaatacc cactaatagt ccttgggtct 180
agtttcttct cttgtggatt ataaactctc acttcagatg ggaatcccca agcgcata 240
tgtcgcanac tcggtttcca acctttgaat aactagaaag gtgtctttaa gacagccttg 300
gttggaacct ggtttaatat atatacaacc gtctttaatg cttcaatcca caagaattga 360
ggaagttntt tattacttct catactttnt atcatgtcca ttaaagttcg gtttcttctt 420
t 421

<210> 16831

<211> 397

<212> DNA

<213> Glycine max

<400> 16831

tgagaaccat aggccggtgt ctatgggtcc ttgatatta tgaacaatcc actttgcatc 60
cttgagagga gtactcatta cagtctccat gtatcaactg atgactccag cagcatataa 120
aacgtctagt cttgtgcaca tcatatcgta aactaccac caaactcttg aactttgtat 180

catccacctt tcttgcttga tcgaactttg ataacttatt tctgcactca atcggtgatc 240
 caattggctt gcaagcatcc atcttgaatc tattgagcat ctggtgtgtg acatagccct 300
 ttcacactta cgagatggca aagtggctct gtgagtgggc gatgacgatg gtgagagctc 360
 ttgctgaaca tgttgagggtg tcttatcttc ttcaagt 397

<210> 16832
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16832

tctagcgtac ccgctatngg tgctcataan atcccaaatt caaatccctc ttattactag 60
 ctatcttgaa ttcttttagtt cctgaatgta caaccttcaa attgttactc gttcccgtat 120
 ttgttttctg caaaaaagaa aattaatctg aaacaattca ggctgaattg ttatcgttat 180
 tattactcga accataagga ataacagcta aacaagtaat ttaaaatgta acttttaaatt 240
 tatgtggtat ttttttaatt acaattttac ttcaatatct aattttgtta atctacttag 300
 gtcgttggtt aaatataaat atgaatttaa aggtgatcta ctgataatat aaagtacttg 360
 ctaatcacia attatgatac ctatcattnt caattntaac ttaattntat aaatattaat 420
 aaatgtataa taa 433

<210> 16833
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16833

ntgtacggcc ttaagcaggc ccccaaacia tggtttgaat tactgcaatc tactatcttc 60
 aagccctttg tgatgcaaac tgggcatcaa atgttgatca ctgaaggtga atttcaagtt 120
 ttgccatata tttgggccct tatcatatat cttggtggac ctgcaagatc aagtgcaaag 180
 gcaaaatatc gtagtttggc ataaactact atagaattat cctggattga gaccatgttt 240
 aatgagttgt aagtttcctt caacacactc attgtattat gtgacaacca aagtgttgtt 300
 gctcttgccc actaaagtta gttattgaca actgttgaca cctaactcaa tagattggta 360

acacaaaaat tagtacccta agaataaaag aatattntaa tntggatatt gttcaatgaa 420

agagtaaaat atag 434

<210> 16834

<211> 401

<212> DNA

<213> Glycine max

<400> 16834

agttttatat ttcaatttcg agcgtctcaa tagattacgg gactcaatca gacatccgag 60

caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatcgtctcg 120

atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt cgaatttgct 180

gagagcttca acattcaatt tcgagcgtct cgatgtttta tgggacttaa tcagacatcc 240

gagtaaaaag ttattgccgt ttgaatatgc tgagagcttc aacattcaat ttcgagcatc 300

tcgatatatt acgggactca atcagacatc cgagtaaaaa gttatcgctg tttgaatttg 360

gtcagagctt caacattcaa tttggagcgt atacatatat t 401

<210> 16835

<211> 379

<212> DNA

<213> Glycine max

<400> 16835

tctggaagga gatcaacttg atgttctatg cctcttgatt gtggtagtcc atgaggaatc 60

tccataggaa agacatttct aaattcctgc aataagggtt gaacactagg agaaatagaa 120

atagtaaact cattagaatt atgagtagaa attttactgt ctttgcaata ctgtagattg 180

agtggttcat gagcaggtaa cattttcctc acttcactcg cctctgcaaa ataattaaat 240

tttctctcat gtgtatcact cttttcctcg ggtgtatcac tctttttcat attccttttg 300

ggtgcctcac tattatcttt ctcttgggtct ctcttttctc tcattctgat ttggtcatca 360

cacattctc taggggata 379

<210> 16836

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 16836

agcttgtatt cactacttgt tgagaacccat aagccaaagt cgattgttcc tttgatatta 60
tgaagaattc attttgcac cttgagatga gtagtcatta gaggctccat gtatcaactg 120
atgagtcacg tagcatatag aatgtctagt cttgtgcaca teanacgta aactaccac 180
caaaactcttg aactttgtag catccacctt tctgtcttcg tcgaactttg ataacttaat 240
tntgcactca atcgggtgttc caattggctt gcaagtatcc atcttgaatt tattgagcat 300
ctgggtgtgtg acatagccct ttcacactta ggagatggca aagtgtcttt gtgagtggtt 360
gatgttgatg gngtgagctc ttgctgaaca tgttgagggtg tcttatcttc ttcaagt 417

<210> 16837
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16837

ntagtgcatt taatccactt atgaatagac cccatcttcc tcataatata aaactagaaa 60
tcccacaaac ataatcgtat accttctcaa agttaacttt aagcacaagg catgatttct 120
tccttctctt agcatcatca accacctcat ttgcaatggc tacactatct aacatatttt 180
gctctcccat aaaggcaatt tgcttttcac caataattnt agggagaacc actcttagtc 240
ttcttgctaa aaccttagac aaaattttat acaagcaccg gattaaggat ataggcctaa 300
agttattaag gccttgtgga tcatcctttt ttgagatgag aatgataaac gaaggattnt 360
ctcttcttgg aattgtcca ttttcccaa actcttgcaa catatttata aaatccacct 420
tcaatgtagc ccaacatttc ttg 443

<210> 16838
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16838

tatcattcta tctctcanaa agtatgaaag gaagttcaag tgatgcaggt aattcatacc 60

cctagtagac aaatatttct atcttacctt catgtagaca tctgtatctg gatcaggtgt 120
aatatttgct tctttttctc ttctgaacac ctctgctagc aaatctgcag aatgtgaaat 180
aatttttagtt aaaacttgat ttttcatatg aattttggct cgatttccaa attgcagctc 240
tgtgggctaa ccataaggag gcccaactcc ttggactcat gctgagaagg ccagggtttc 300
tctgactgtc atttctccaa tatgaagatc attttgactt acaaactcat tcatcccatg 360
accattataa gtcacctttc cagtgaactg atcaagaagc caaacctaata tagctacaaa 420
tccaataatg gaaaatatga gcacaaacat cat 453

<210> 16839
<211> 398
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16839

agcttcttac tagtttacgg ctttctggat gtagatgatg atatctatac agatggatct 60
tatatatcta tatatctata gatagatata tagatataga tatatagata tagatcatac 120
aatgaagtac cgcacgagtg ggtatatagg aatccaaatc tgccgaatca ctcatgttat 180
gatcttctac atcctaggtc ttcccggttc ttcatctggc ttatgttctt catgtagcat 240
tcagactgaa tgactctatg aaattacgtc gctacttcca catggtacgg gtaacgtatg 300
agacatctct atttttcccg gngggaaatcc ttagaattac cacagcttag cnttcaattc 360
gcctctgacc atcatatgaa atgtgaataa cccgtcct 398

<210> 16840
<211> 461
<212> DNA
<213> Glycine max
<400> 16840

tcaagcttgt gaatttagtt ttgatgcagc aagtgagggg aaacaattct taattgatgt 60
ctcaaaaaaa aaagcagcgg attcagtagc acgggctgca ataagagctc ggtgtcatta 120
tgttaataaa aagtggctcg gcggtatgtt aacgaatcgg tatactacag aaacacgact 180
tcaaaagttc agggacttga gaatgcaaca aaagacgggg agactcaata gtttttcaaa 240
aagagatgcc gctatattga agagacattt agctcatttg gaaacatatc ttggcggcat 300

taaatatatg acgggggttac ctgatattga ataatcgtcg atcaacaaga agaatatatg 360
gctcttcgag aatgtataac tttggaaatt ccaacaattc gttcaatcga taaaaattgt 420
gacccggacc tcgccgatat ttcaattcca gctaattgatg a 461

<210> 16841
<211> 410
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16841

agcttgcttt cattttcagt catcaaagtc acctccccta tgccaacaat cttgcttgtg 60
acatggttgc ccattctcac cataccaaaa tctctttttt gatatggcaa aaaaaatcct 120
tcatgaggag taacaaggaa aaatactcca gagtcaatta tccatataca ataatcagat 180
gcaatattaa aataattttc attaccgata aaaaaaacat tctcatcatt taatgacaga 240
gaagtagtgg ttccaccttt attcttcttc tttgggtcaa ttcaattagc atggatagtt 300
ccagtcttct gatctttctt caagaatcta cctcaaact tcttatgggc cgactttccg 360
caatagtagc aactaaagcc tttgnggtga gacttggtgc tttcttgtga 410

<210> 16842
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16842

tgcttctaca actctattta taatatattg tgcaatcttt atttcctttc ccaagagtga 60
ctatagtaag ttagaatgac aaatcatgct tcttaccata tcttaagag tttgtttca 120
tctttcagct actacatcca tgctagggtga ccacgacatg gtgtactatg ggacgatttc 180
acattcctct aggtacctag caaaaggccc cggacgttgt tcacttgaac cgtcatatct 240
gccatagtat tcaccaccac ggtcatatct aacactcttg attcttttgt tgagttgatt 300
ttcaacttca actntaaatg ttttgaacac atccagagat tgttatattt catgtataag 360
aaacaagtat gcatactctg agtaattgtc tatgaatgat ataaaatatt gttgaccatt 420
ccatg 425

<210> 16843
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16843

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 gggtttgggt ttgtgctcct ctgctgacca ccatacagac cttngccctt ccatgcagca 120
 acctatagca attgagcagc ctgaagctta tgctgcaaatt atttacaata gacctcctca 180
 acctcagtag caaaatcaac cacagcagaa caattatgac ctctccagca acagatacaa 240
 ccctggatgg aggaatcacc ctaatctcag atgggtccagc cctcagcaac atcaacagca 300
 gcctgctcct tccttccaaa atgctgctgg cccaagcaga ccatacattc ctccaccaat 360
 ccaacaacag caacaacccc agaaacagcc aacagttgag gccctgcac aaccttcctt 420
 cgaa 424

<210> 16844
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 16844

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 tgtacctgtc gcaagggttt gtgggtttgtg ctctctgtgct gaccaccata cagacctttg 120
 cccttccatg cagcaacctg gagcaattga ccagcctgaa gcttatgctg caaatattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaga tacaacctg gatggaggaa tcaccctaac ctgagatggc ccagccctca 300
 gcaacaacaa caacagcctg ctcttctcct ccaaaatgct gctggcccaa gtagaccata 360
 cattctcca ccaatccaac aacaacaaca accccagaaa caaccaacag ttgaggcccc 420
 tccacaacct tcctcga 438

<210> 16845
 <211> 393
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16845

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atattgcctg ccataattca tgtggtgcaa cttataaaat tggttgacaa cttcacttaa 120
tggtatttga ttttaagatg aaatctaaca tggataaag ccttacaacc catctttgtg 180
tattgcctat ttttctacat tgggtggagtg gggatgttga aaagtcgcac atcgtttgcc 240
ttaattctga gggtgcaact tatatactta ttgggaaact ttacttaaga ctaatcgatg 300
ttatgaatct tatgatgaaa cctaacaact tgcaacgaag agacttgtcg gttgctactt 360
gtttcaaagc ttgggtattn gtgcatacaa acc 393

<210> 16846

<211> 413

<212> DNA

<213> Glycine max

<400> 16846

agtgggagtt gttggaggaa gttcagatga accagttgta gaagattttg atctagataa 60
tttaattttg gtggaacttg gtgatgatgc acaatttgag gaacaccttg atgatgatgg 120
agacggtgat gaaactgatg atatccatga aaatgatcct attagagaat tagacatggt 180
tcttgacgta gctcctatgt ggagcttgta ggccttggat attcttcatc aatggagtcc 240
tttgcttctt gaagatgaat gacagcagaa tggagaagga agatgattgg agatgccact 300
tcaaggagaa gatgaatcaa gaagaagctc accaccatag gaagccatgg ataagagctt 360
gaaggttgga gaaaatgagt ggagggagag ggagagaaaag agcatgaaat ttt 413

<210> 16847

<211> 410

<212> DNA

<213> Glycine max

<400> 16847

agcttattct tcaaacctat tgaaacgata gatcctgaag aaaatggggg gaggggggtt 60
agcattagag aatagaataa cagaattact ttgatttaaa tcctggcaac cagaagatag 120
cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcactccag 180

cactttttaa aacagttgaa gagaaataaa acacagcatt tataccagat agctgttgta 240
aagcaaatag ggttgatcca ataaaaacaa ctgcaaaacg aacttgtgaa taaaatataa 300
cttttggaag cctaaggaaa ccagtgcacca gataacaaca atggcaaata cactcacaag 360
tcacaactat tccagagaca aaccaggata aatgcatacc tttagaatga 410

<210> 16848
<211> 412
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16848

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ttctcagcag tcacatcttt tcatttggtt cttgaatggc catcaaaggc ctatatatat 120
gtgacttgag agaccttggt atcatgtggg cctttcatac cgggcgtcaa cttgactggg 180
cacacttagt cggatattgc atgcataagg cattgctgatt aaatgggtcca ttgccatata 240
cacaccttgt cactctcttt ctctgccatt ttcaaattct tcttcattct gaaccttatg 300
ttccaatcaa gagatccttt tttaattggg gctgctgtga ttgcctcctt tggttaccgc 360
anagagcatg atggctcttg ngtcanaatg ggtgctcaac ccgctgatga tg 412

<210> 16849
<211> 335
<212> DNA
<213> Glycine max
<400> 16849

actagagaga attccatgct accttactac taccttgatg tacaacatca ctagcttttc 60
cattgtatac ttcatattca ctgcgataaa atgagcagat ttggtgagtc catctactat 120
gaccacacac gtatcatgcc cactactagt cttgggtaaa ctagatacaa aatccataga 180
tatgctctcc catttgcatt ccggaatctt caatggctgc aattctcacg atgggcgctg 240
gagctaacct aagcctttga catgtcaaca tcttgctatt attcggcaca tcttattcat 300
gcctgccacc aaaactttct taatcttgga catat 335

<210> 16850

<211> 346
<212> DNA
<213> Glycine max

<400> 16850

agcttggttt gcatcaacct tggccattct aaaatcttcc ttaccttat cagtgccttc 60
tttaatgtat gcagctggtt cagtaatatt tgaatccatg ccattgatgt ttaccccaac 120
atggtttccct tcagtgtctg agtcatcttt gtaaccattc atttgttcaa actcaactgc 180
aaagatgtgg tttgactcat tcccatcatt ggtggagtta acaaggccaa gataatggcc 240
agcctcaacc ccaggaaact gtgttgaggg tgctatggtg aaggcaaggc caaagccacc 300
agaaccagaa cttgtggaca caattgagaa aacaaaattg gtgctg 346

<210> 16851
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16851

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ttgtacttga ttcttgaatg gctgtcaaag gcctatatat gtgtgacttg ngacacgaat 120
ttgctaagag ttcttcacaa caaaaagggtc ttatcctctt aaaaagcaaa tcatattatc 180
ctcttacaaa ttccttggcc aaattacttg tgattcaata aggaattatt tgagtgtctca 240
aattgttcaa tcaatctctt taaagagaga tttcttcttt tcttcttctt cattctgaan 300
agggattaag agaccgaggg tctcttggtg tgaaagaatt ctaaacacaa aggaagggtt 360
gtccttgtgt gcttagaact tgtaaaagga atttacaaga tagtggaact ctca 414

<210> 16852
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16852

agcttcctta tgaatanttc taaagaagtt agagcttagc tacacacaca tctctaatag 60
ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120

aagctcaccc ccatgacaaa aaaaagatga aaatacaaaa gaaaagtcct tactacagag 180
 actactcaaa atgccccgaa atacaaggct aaaaccctat actactagaa tggccaatat 240
 acaaggccca aacgaaggat aaacctattc taatatttac aaagataagc gggctcatac 300
 ttagccatt ggctcanaat ataccctaaag gctcatgaga accctagggc cttcccttgg 360
 atctctagcc caatctactt ggagtcttct a 391

<210> 16853
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 16853

aagtctcaca ttgtcatgtg ctctgcatta ttgtagcctg gttatacaga atcttgtcta 60
 caaagtctgg ttāgcgataā ctogcctgtg ctttttcttc catgctatat gtagcaaagt 120
 cattgatcca gtcaagcttg atgagttgga aaatgaggcc gcaaatatac tgtgccagtt 180
 ggagatgtat tttccccccg ctttctttga catcatgatt cacttgattg tgcactctgg 240
 cagagaaatc aaatgttgag gtccctggta tctactgtgg atgtaccggt ttgagcgata 300
 catgaagatc ttaaaagggt atacgaagaa tctatatcgt tcagaagcat ctattgttga 360
 gaggtacatt gcagaataag ccattgaatt ttgttcagaa tacttagaga aagctaaacc 420
 t 421

<210> 16854
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16854

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 taatgaattt tttttggagc tgagttagt gttgtttctt tgaggtttga acctgtgatc 180
 tttagtaa ataatcaagct tgtcaccact aaaccaatcc tagtggcttg aagtagtgg 240
 tatgtagtgt gcgataatgt acaatccttt aaatagttaa tctttctgtc atgcagtcgt 300
 gagtttacc atcgtgtgaa gtctgtatct atggcaatgt tcacgtcaca agaagttgat 360

gctcttcaaa atgggggtaa ccaggtacaa tgggtgatta tctnttctat atttggaat 419

<210> 16855

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16855

agcttctatt ctntatacaa gaatgaagct ctgataccag ttgttagaca agtggcctca 60

gatatcttaa gaaggggggt tgaattaaga tattgcaaac tatttcccca attaaaaatt 120

ctatttcaat ttcaatgcaa gttgcaagtt cccttaaaaa tgaactttta aataatgatt 180

caaatagaac aatctgaata taaatataaa tcaataataa ataaacaagt ttaaggggaag 240

aaaaagtgca aactcagatt tatactgggt cggccacacc cttgtgccta cgtccagtc 300

ccaagcaacc agcttgaaag ttccactatc ttgtaaaatc cttttacaag ttctgaacac 360

acaaggacaa tccttccttt gtgttcagat ttcattacaa caagagaccc tcggtctctc 420

aatcccct 428

<210> 16856

<211> 442

<212> DNA

<213> Glycine max

<400> 16856

aagcttgaag gtaaaactaga tgccttggtt ttctggaacc catctggcca tgaatcagaa 60

atctgcacct gtcgccagac tctgtgattt atgtctctct gccgaccacc acacagacct 120

ttgcccttct gtgcaacaat ctgaagcaat tgaacagcct gaagcttatg ctgcatacat 180

ctacaatata cctcctcaac cacagcagca aaatcagcca caatgaaaca attatgacct 240

ctccagcaac aggtacaatc cggggtggag gaatcatccc aaccttagat ggtcgaatcc 300

ttcacaacag tagcaacaag aaccttattt tcaaaatggt gcttgtagaa gcaaagcttc 360

atgatgaatc cagattgatt caaagatggt ctgatgataa caaagatgaa tgacaaaagc 420

tcaaggtcaa tcaaagaatg ag 442

<210> 16857

<211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16857

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agctttttat taaaatttct tccttctcct ttgttttaact actacagtat atatgttatt 60
ataatttgat gctgatttgt gtgcaggtaa gttctcatgg cctgagttgg ttgggggtgca 120
aggaacggta gcggaggcta caattgagag ggagaatcct tcggtgaatg ctattattgt 180
gcctctagga tccgtggtca caacggatct tcgaagtgcac agggtttggg tttgggttaa 240
taaagatgga attgttaata gagttccaaa aattggatag gaagtgttta cactanagca 300
catcaccata tatgttctaa taagttatga atatatagta atatttaaata aaggagtatt 360
ttttccaatt atgttctttg attgcaaaaa atattttata cttttaatta tgctct 416
  
```

<210> 16858
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16858

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tgcaaagcac agcaatgtgg gatcagtagc cccatcctta tagctaccat catcaatcat 120
gctctcccc acaaagctg caattatata taaaagcttc aacgtaagat tgattttgac 180
aatttctaag aactaaagac aaaaactgaa ttatgtgaac atgttaaccc agacaaatca 240
ataaacaggt ggcacttaca actgaagatc cttgatcttg gagagcaggg atttagttgc 300
tccctcaatg tgctttntaa acagcttcag tttctcttcg tcaagctttt gacaagaaac 360
tgcttcttgt caaaagcagg ttgctcctac ctacaaagat aatat 405
  
```

<210> 16859
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16859

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ctcttctcgt ccttgtcttc ttaagaatga aacaagttta gtgttgcgat tgaaaaattt 60
  
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 accttttttt ttacttgtat acatgtaaaa ttttaaataa catcacttca aatatgttaa 180
 attagctcat taaaaatata atttatttgt aagtaaagtc cagattgatt atttactctt 240
 ttatccaaat ttttaattga aattcagttt taaatgaaaa aaaaggttat tgtcactgac 300
 tcattttata aaataattct catccaaatt taaattttta atttgtaaac tttaatcttt 360
 nttttatcag cctttanact ttaatctgaa tatatactat agtattttct tttcagcaag 420
 agataatatg taggaataaa tacgtcaatg t 451

<210> 16860
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16860

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 tttattttat catctattat tcaatgtcca acacattatt attaaacaaa catgaaattg 120
 tttggaaaaa ccagtactta tgtagtgagt gtctttacac gtacaattaa aaaagacata 180
 actaagttac actaatgttt tatattctgt ttgttaacat ccaaatacatt ttgcttgcat 240
 gtgaaagcat ctccaagata aatatttgct gatgcaatcc tccctaggaa gggaccagtc 300
 actagagcca tgagcaagag gctccaagag gattangcta gagttgctga agaatgcctt 360
 aagattctca tgaaccaggy gtagatntct gagcccatgg gccaaagggtg agtccaatta 420
 tctttgtaca tattagacta gaatgtcatt at 452

<210> 16861
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 16861

agcttggttt ttcttattcg atatttttaa tttgcaaaat tgaatgttat tggagttgca 60
 ctgtttatca tgcttgtctt gtacttaaaa atatttaact tctgcatttt ttttattcca 120
 cagaactttt acatgatagg aagggacaag agcaggacat attggaaagt actaaagatt 180

gaccgtcttg atccttccga gctaaatttg cgtgaagatt ccaccacata tacagaaagt 240
 gaatgttctg atcttttgag acggatacat gagggtaaca agtccacagg tggactaaaa 300
 tctgctacaa cttgttatgg aattgtaggt atgtaaatcc ataatgtctt agctacctgc 360
 ctgttgacca attatgagtt acfgtctgga tatactatt 399

<210> 16862
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 16862

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 tggttccagt ttaaactgta tgcccaagag cactttggag aaattacctt tcaatgcttc 120
 ccacctaag ccaagttcca tgggtgttctg tgccttcaac gacacccgcc gagagggttag 180
 gggagagatt gacctccccg tacagatagg cctcacacc tgtcaagtta cttccaaat 240
 aatgggcatt aacccccctt acagctgcct gttggggcgc cegtggatcc actcgggtggg 300
 agttgttccc tctacactcc accaaaagt gaaattcgta gtggaagggc atctggtcat 360
 cgtatcaggc gaggaagaca tcttggttaag ctgccatcc tctatgcctt atgtgga 417

<210> 16863
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16863

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 ctaaaccatt agctaggaaa gaagtttatg atcagggttaa ggacatcgta actatctttg 120
 ggaagacca aaagaagcca tcatctgaga caaacatagc gaagaaaatg tcaatattct 180
 tttatcttcc atattggtcc gatcttgatg ttagacattg tatagacatc atgcatgtgg 240
 agaaaaatgt gtgtgatagt ttaattgaca ctcttcttaa cattaattga cactcttctt 300
 aacattatac gaatgttctc atttctcagg ggatcattgc agcaatagta accacaaaaa 360
 aaaaactatg tttgctgata aaaaaataga aatcaaacag caattgggtt gctttattnt 420
 ttcccatcaa tca 433

<210> 16864
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 16864 --- --

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 gagtctaattg ccattcttcc aaggaaggat ttttttagatg atatttcaga ttccttagaa 120
 gatacacata ttcattggaaa tgactctaaa gaaaaagacg aaggaagcaa tgaggattct 180
 caagataatg gggctagagg aaataatgaa cttccaagag aatggaaagc ctcaagagat 240
 catcccctcg acaacattat tggatgatata tcaaaagggg taacaactag acattctctt 300
 aaagaattat gcaataatat ggctttttgta tctatgattg aacctacaaa tataaaagaa 360
 gccatagtag atgataactg gataattgcc atgcaagaag aactgatatc aattgaagaa 420
 ataat 425

<210> 16865
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 16865

agcttgaatc ttctacccta tttctgacag ccagtgggtg agtccagtcc aagtgggtcc 60
 taagaagata ggcttcacag tgatcaagaa tgaaaaggat gagcttatcc ccacaagagt 120
 gcagaacagt tggcagagtct gcattgatta taggaggctg aattaggtaa ccagaaaaga 180
 tcattttccc ttgcctttca ttgatcaaatt gcttgagcgc ttggcaggta agtctcatta 240
 ctgctttctt gatggttttt ctggttatctt acaaattcat attgctcttg aggatctaga 300
 aaagaccaca ttcacctgtc cctttggcac ttttgacctat atgaggatgc ccttttagcct 360
 atgcaatgcc cctggtagct tccagcgggtg tatgcttagc attttcagtg actttttaga 420
 gagtcgcata gaggtgggta tggatg 446

<210> 16866
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 16866

gctcattatg ttattgttct ttcaaagtat gaacaaacac tatgattggt catgatagag 60
cattacagca tataatatat tattacattt ctgaaacgac atacaacttg tgggtgttacg 120
atgggtgcat agccaaggcg atccttttgc tttgagcaat caaatgttct gctgcaagat 180
atgagtctta ttcttgaagg aatgagttga ggcagctcca tcccatatgg gcttagcaac 240
ttatatatgc actccaacca atgtgcactg ggcattgataa caaaagtggg ggatctttac 300
ccttggccta taagcaacat gacttagatt acaaagaaat ggcattgaca at 352

<210> 16867

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16867

ctataatact cagcttgagc caaagggaaa aagaacttag ttattcaatg tactctcctt 60
aatanagtgt gttcaatgca aagttaccac tctattccat ccaaccttga ggattgataa 120
aaccattatg ataagtcttc attaaaattg ttcttgaata ttgcttccat ggtctttgaa 180
gataagtcct aaccgggttt tgaaccggtc tcacatctga ggcagctgtg actcaagaat 240
tgcgaaattga aattccagt ttttggtttg gatcagttct gccttgtgca gcgatgggtg 300
tgactatgtt gggagggttt cttgcaagggt gttgcaattc tgtaacadaa caacaacaac 360
atgctacagg agatttncat caacttccct gccacacgcy tttgggtaac aacaaaatga 420
taagtcaact aatagccagg agattacatt acactttcac atgcacac 468

<210> 16868

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16868

agcttccccg ctgtgtcaat ggcggcacc acgttcaaaa gtgaccccc cccccgtaa 60
tttgttttaa aataaacctt ctcccgtaaa tagttttcaa aagcatcccc cttctgtaaa 120
tttgctcgg tgtgaagata gtctagtatt caagcataga tagcaccata atcattgctg 180

agagaattct aaaaatctcg gctaattatta accaattttt atgtcaaaca accaatctga 240
 caattttcac aaatattaat cattttcatt aatgttaacc aatattattg gcaaatgaac 300
 aattgtgtga aaaattaact ggattctata cattattaga tttatgattt ttgtttcttaa 360
 attaaaataa agactgttct cttaattata ttttttttat tcttatgatt canaataaat 420
 aaataaaaaac ttaagaga 438

<210> 16869
 <211> 311
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16869

agctncgaat gtattattat tctntaagca tgtctgtaac atggtttgtg cagtgccttg 60
 aaacttcaga atggggccata tgctntcgaa gatatgataa agatgggtag gatgctggag 120
 aggagcttct ttttcgagcc cgaccctgct tnttcagtcg ttaacatcca ccacattaat 180
 ggccacacaa tactgatcat gagggtgacg gcagctcttt cagtgactgc atanangtat 240
 gtctattctt aaccatgtgt aagactaaat atcagctgat ggaaaataac cactcatatg 300
 gtcaattgtg a 311

<210> 16870
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16870

cgtcgatcct aagagtaata aaatcaaata gctcacaaca acagtttgaa tcnctgctt 60
 actactgcgc tctgcagtgg ttatatattcc cctttcaaaa gagacaatgt cgtgtttgta 120
 ctgatcactt tgatcacctt tgctgaacca tgagagttaa aatgaagcct gtctcgataa 180
 taaagaaaat aattaaaatc aatttgctta agtaggagta aatcagagta tatacattgc 240
 aatttttagca atagaaaaga ggaatatgtc tttgaagtaa aaatggtaca agatgtctta 300
 ccacagattt ctaagttcaa atacatggga tcaataatac aagatgatgg aaaaattaat 360
 gaagatgtca cgcaaaggat acaagcggga tggataaaat agagaaagga gtcaacggtt 420

atttgtaatc gcgaagtccc taccaatatc anggcaagtt tatcgtacta ctatacg 477

<210> 16871
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16871

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 acgtgccttt ttttgtacac tcaaaattct attttgaagt agactaatgt aatgtatcat 120
 gccctaagt aactacaaga ctganagttg tgtgttctat tagactggga tatgcgtttg 180
 aaaattgttt ttgggattgc tcgagggctc ctttatatgc atgaagattc taggttgagg 240
 attattgata gggacttcaa aacaagcaac attctactaa aattctgatt ggagaactat 300
 accaaaatta cctcctaagg agttgtatct aacttttgc cttantttgt atttgcaca 360
 ctttacataa tcataccaga caaatctctt attttgccta catttcacat tnnttgtaat 420
 gcaatgggta tatgtgtcca taata 445

<210> 16872
 <211> 391
 <212> DNA
 <213> Glycine max
 <400> 16872

caggttgagt tctgcttacc acccacagac tgacgggtcaa accgtgcgtt ctattcaatc 60
 cttaaagaa ctcttgagag cctgtgtgtt agagtagacg ggtacttgga atagtttctt 120
 acccttgata gaggttacat acaacaatag ttttactcc agtataggta tggcacctta 180
 cgaggcattg tatggtagaa gatgtaagac acctctatgt tgggtagatt ccagtgagag 240
 cattgcctta cgacctgagg tagttcacca taccattgaa aatgtcaagt tgatccaaga 300
 taggatgaca gcagcccaa gtatgcagaa cagctactat gatcagagaa gagaggatct 360
 tgaatttgct ataagtgatc atgtatttct g 391

<210> 16873
 <211> 444
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16873

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ttagaggacc tcttgagagc ctgcgtgtta aaatatgggg gtagctggga tagtttctta 120
cccttgattc tacctacaac aatagctttc actccaatat aggcattggca ccttacaagg 180
agctgtatgg taagagatgt aagacacctg tatgttgggt aaataccagt gagaacattg 240
tcttaggacc tgaggtgggt cagcaaatca ctggaaagggt caagctaatac taagaaagaa 300
tgagaacaac ccactgtacg ttgaagagct accatgatac gagacgaatg gaccttgaat 360
tctccgtagg cgaccatgta ttcccgatag tcactacatc cactgggttg gtatggcatt 420
gaagtacaca tagctcacac ctag 444

<210> 16874

<211> 412

<212> DNA

<213> Glycine max

<400> 16874

ctcaactgaa ttacaacat tccaattgat ttcaaatgg tgtattttat tacaatgata 60
tggaatcga ttaccagtgt gtttgaatgt tgaaattcat attcaattgc gaagagtcac 120
atcctttcac ataagtgtg tatgtaatcg attacaatga tttggcaatc gattaccagg 180
gatgtgtttt gaatacaaat cactagatgt aactcttcca atggtttctca agtctctcta 240
aaggctataa ctcatctatt ggccttcttg acctgacttg acgagtctat ataaccaaga 300
ccttaacttg cattgtacac acattgatta caatcttata tctcctttga atctctttga 360
acctcctctt gaatgtcttc ttatcttctt ttgccaaagc tttctaaagt tt 412

<210> 16875

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16875

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tgaaatgact ctgaatgatc acaacttgat tgggtttgga gaacacacag acccacaat 120
 catctctctg ttaagatcca acaacacttc aggccttcag atttatctta gagatggaaa 180
 ctggatgtca gtcccaccag atgacagatc ctttattatt aacgctgggtg atactcttca 240
 tgtacaacat aaagcatgct attgacgcat actaatgagt tcaatgaaga aattgtcatt 300
 ttctttctcc ttatgactta cgtatctcta tggataagta taaaataata aatatacaaa 360
 ctctcttttt aagt 374

<210> 16876
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16876

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 aaaaagaact aaaatgacag ccataagtat gtacctttga ttntttcttc aaattataat 120
 tatggcgaag tcaatcccc tgcaaatgag cgcttcaata gattcttcat ttagttaga 180
 acaatactca tcaattacc tacccttagc actaaatgta gactctgaaa ctactgttga 240
 tattggaata gctagtatgt caccgccat ctttgataaa accttgtatt ttaggctatt 300
 gttcctccac cactctaaca cactanaata agagttacta gtttcaggaa tataaacatt 360
 ctcttaaga taatcctcta attctgagtt cactggaggg gtggcttcat ttgcacgcac 420
 aatgttcatt atttg 435

<210> 16877
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16877

agcttgaagg tttagtagat gcattgggta acttggtaac ccagctggcc ttgaatcata 60
 aatcgggtacc tgtcgcaaga gtctgtgggt tatgctcttc tgctgaccac catacatacc 120
 tttgcccttc catgcagcaa cctggaacaa ttgagcagcc tgaagcttat gttgcaaaca 180
 tttaaatag acctctcaa cctcagcaac aaaatcaacc acagcagaac aattatgacc 240

tctccagggg accatccggtt gttgggatgc gaccctcatt ngaccacttc gaggtacttg 300
gcacccatcg ttaggcaatt tgtgaagtgc catgacgtgc cggaagtcga aagaaagcat 360
tgtagcacga tccgtgaagt tccgcgacat gc 392

<210> 16878
<211> 370
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16878

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atgttcatca tggatttatg ggatgtaatg aaaaaatatt ttttggcatt tcttgatgaa 120
ttacacataa atgggagact agataaagtg gtcagtagat cttttattgt tctgttacct 180
gaaaaaagaa aacctaattg ctatggggga taatatatcc ctgatagggt gtttgtataa 240
aatgttggca cagatgtttg ctaataagtt aaaatgggtt attgatgatg ttatttccac 300
aaccaatct acttttatat cagggaggaa aatgctggat cgggtactca ttgctattga 360
ttggttcatg 370

<210> 16879
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16879

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taatcaagat aagtatgaaa ggacttttca aaaactgagt agcacatgga tttttcacia 120
aacatgttta ccaaagagtt tttactctct ggtaatcgat taccagatta ttgtaattga 180
ttaccaatag caaatggat ttgaaaaagt tttcaaactg aatttacaac gttccaattg 240
atttcaaaaa gttttaattg attacaatgt tttggtaatc gattaccagt gcctttgaac 300
gttgaaattc aaattcaaat gtgaagagtc acatcctttc acataaaagc cttgtgtaat 360
cgattacact gatttggtaa ttgattacca gtgaattggt tctgaataaa tcanaatatg 420
taactcttca aa 432

<210> 16880
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16880

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agcttatcca ttctacccat tgaaacgata gatcctgaag aanatggggg gagggggggtt 60
agcattatag aatagaataa cagaattact ttgatttaaa tcctggcaac cagaagatag 120
cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcaactccag 180
cactttttaa aacagttgaa gagaaataaa acacagcatt tataccagat agctgttgta 240
aagcanatag ggttgatcca ataaaaacaa ctgctaaacg aacttgtgaa taaaaaataa 300
cttttggaag cctaaggaaa ccagtgaaca gataacaaca atggcaaata cactcacaag 360
tcacaactat ccagagaca aaccaggaaa aatgcatacc tttagaatga cgaccatgaa 420
ngcaattcga cagcttcaca ctatcacta 449
  
```

<210> 16881
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16881

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ggattgagtt ttcgttcatg cgtactccac cttecgagtat ggagccatgc gtagtgattg 120
cttagttcaa ttctccattc tcaacccctt tttcgcagcc ccatgaattg cgatttggtt 180
catgtgtcct ccaccttcga gtctggagcc atgcgtagtg attgcttagt gcaattctcc 240
attctccacc ctttgtcgga gcccatgaat tgcgtattcg ttcattgtgc ctccaccttc 300
gagtttgaag ctctgcgtag tgatttttta gtgcaattct ccattctcaa gctttatcgg 360
agcccatga attgagttat cgttcatgcc tctccacct tcgagttt 408
  
```

<210> 16882
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16882

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 tatattcacc aagaaaacat tatagtggaa ggacattgta gtcttgtgat tcaaaagatc 120
 ctccacca agcataaaga ccttgggagt ataactatctt cttgttcaat tggagaagtc 180
 actatgggaa aagctcttat tgacctgnga gccagtataa atttaatgtt gctctccatg 240
 tgtagaatgt tgggagcgtt agagatcatg cccactagaa tgactctaca attggctgac 300
 cgctccatta ccagaccata tggagtaatt gcagatgtgc tgggtcaaagg gaaacatctc 360
 atcttcccgg tagacttcgt ggtattggat atttgtgaat atactgacat tcctgtaata 420
 ttggga 426

<210> 16883
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16883

agcttgcnca cttgtcttat tctatatgaa gggctctgat ttcttgagta gttttagaaa 60
 tggctttccc tttttggtga gctttgggaa gaacctggac agacatgcta gcctttcatt 120
 cagcttcagc ttctacactt cttggatgtt ggttgggttg cgcagatca gtatggtagt 180
 gcatttggtt nggttggctt caatccccta gtgagtgatc atgaagtcga ggaacatgcc 240
 tctgtctacc caaacagtac atttatcatg gttgaggcac atgtcatatt agtgaagttt 300
 ccacaagact tcttcaggt cagtcacatg ttgggctatg ctccgagaca tgtctatgat 360
 gtcgtgcaca tatacc 376

<210> 16884
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16884

ctcctttctg ggttgatgac ccagtatggg taggtgaccc agaataatgtt gtangttgcc 60
 ttttggttat tggctctggt agagccagta gaacctcttt tccttttgta ctggatcttc 120

ctcctctgcc ggaggaacta gacaccatag gaggcacgga gaattttctg taaaaattca 180
 cgggtgagat agtcaggtag agagttggaa gagcccttga tatattctat attaaaaatca 240
 aagacactta aaattgcttg ccatcttgca aaaatctgtt ttgaggcaag gttttttaca 300
 tccttctgta naatgtcttt ggctgatttg cagtcaaccc ttactaaaaa tttttgattt 360
 aataaatcag attgaaatth ggaaatgcac aaaacaattg ctaaaacttc ttttttgaca 420
 gttgaatact ttaattgtgc aggattccag tgttntgaag tatatgcaat ga 472

<210> 16885
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16885

agccctatan atttttatat ggcttgaaac aagcactgag gcagtggtag aagaagttha 60
 atgagtttat cagcaactca ggattcaaca gatgtgacat gaaccattgc tgctatgtta 120
 agaaatatac taatagttha gttatcctta tcgtgtatgt tgatgacatg ttgattgcag 180
 gatctagtag gacagaaatt aacagggtga agcaacagtt ggcagaaaaa tttgaaatga 240
 aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaac agatcagaaa 300
 gaattttgaa gttgtctcat gagaaatata tacacaaagt tgcttgacaa gttttacctt 360
 gaagattcta agaccaggaa tacccttttg ggatctcatt agaagtttca aag 413

<210> 16886
 <211> 463
 <212> DNA
 <213> Glycine max
 <400> 16886

tactgttaga acttcttcag atccaatctc atgaccacca tagacaaaaa gtttcccccc 60
 gctattattg gcacaccaat gtagaacaat aatagggagt cttctatcag ctgatgataa 120
 ttgaagcttg acaacattgt ttgacaatct ttcaacttgt tggtcagggg gaaagtcagc 180
 agttgacaaa tcccaaaaaca ttatatcacc atctacataa cccacaacaa ccaccgatcc 240
 atcattagat gcccaagata cagagcttat ctccttatcc tcctcttcat ggtctaattt 300

atcatcagaa agctgaaccc tagagtcatt tggataacta gtcactatctt ttctcttcaa 360
 tttgatgtcc ttgtggcctc taatgagaac aattcgatct tcagaagcat cccagagtac 420
 catcaaacca ttttcgtatg caattagcag tctgcaaaat gac 463

<210> 16887

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16887

tgccttgccc catgatatat ntgagggact tatgatcact atgtttgact aattccttgn 60
 gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tcctaatacat 120
 aagttgaata gttaagggtg ggaccactta gcttttcact aaaataagca attggatggc 180
 cttcttgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaaag 240
 aattttgaaa gtttggcaac gcgagtatgg tggcattagt tagcttttgc ttaagaacat 300
 tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac attnttcttg agcacttcat 360
 tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420
 catgtgtcgc aacctaccct tcggcggga 449

<210> 16888

<211> 446

<212> DNA

<213> Glycine max

<400> 16888

taagctcctt caactgcaca aggtctttaa tatttgaaaa gtattcttgt ggaacattca 60
 cccgacgaag aactgacaa aaacttatct tcttcttttt ggacaaggta tggcaagctg 120
 ggggcaagaa aattttcttc ccatcagacc ttggatgcaa ctatgatcat atcccatat 180
 cagctagatc ttgataggta ttcaagtcac ccttcgtctt gccttgaatg ttaaggagcg 240
 ttccaatcac actgtcaca aaaattttct ccacattcat aacatcaata caatgtctaa 300
 cgtctagatc agaccagtac agaagatcaa agatgatgga cctcttcttc catatgcaac 360
 tattactttt atccttcttt tgggtctttc caaatacagt attcaggggtg ttgaaccgcg 420
 tgatatacct gtcaccagt caacag 446

<210> 16889
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16889

ctgagatggg atctgggtctt agaanttaat ttgctaagat cctattctgt gcgattggcc 60
 aacctgagga atgggtgtagt cttgctgctg actacttgca ttgtggcccc ctgcagctcc 120
 cattcatata cctagggatg cctataggtg ttaaccctag aaggaagggtg gtgtggggagc 180
 ctataatcag aaaanttgaa gccaaattga acaaattgaa ccacagaagc atctctatgg 240
 ctggcagaat taccttaatc aatgctgtct tgacagcttt gcccttggtt tatatgtctt 300
 ntttcagggc cccttcagca gtcatacaaga ggctcactac tatccaaaga caatttcttt 360
 ggggtggaaa cttggaagga aaaaagatag cttggatctc at 402

<210> 16890
 <211> 394
 <212> DNA
 <213> Glycine max

 <400> 16890

agcttctcga tctattatgc gcctgaatcg gacctccgag ttaaaagtta tgaccattaa 60
 aatttctcaa gagcttccgt tgattaattc cgtgcgtctc gatataattat gtgcctgaat 120
 cggacctctg agctaaaagt tatgaccata tagaatatct cgagagcttg cgttggtcaa 180
 tttcatgcgt ctcgatatat tatttgctg aatcggacct ccgagttaaa agttatgacc 240
 atttgaattt cttgagagct ctcggtgttc aatttcgagc gtctcgatat attatgttcc 300
 tgaatcgaac ctccgagtga ctatttatga ccatctgaat agctcatcag cttccattgt 360
 tcaatttgga gcattctgat atatgatgog cctg 394

<210> 16891
 <211> 388
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 16891

ctcaagaaat tcanatgggc ctaactttta actcggaggt ccgattgatg tggtttttat 60
atcgacacgc tccaaattga acaatggaag ctcttgagca attcacatgg tcataaatag 120
tcagtcggag gtccgattca ggcgcataat ttatcgagac gctcgatatt gaacaacgga 180
agctctcaag aagttcatat ggtcataact attaagtcgg aggtccgatt cacgcacata 240
atatatctag acgcacgaaa ttgaacaacg gaagctctcg agaaattcaa atgggtcaaaa 300
cttttaactc ggaggtccga ttcaggcaca ttatatatcg agacgtcaa aattgaacaa 360
cggaagctct cgagagattc atatgggc 388

<210> 16892
<211> 456
<212> DNA
<213> Glycine max

<400> 16892

cgtgatagat atgaatgttc aaaaccaata caagagagag aattttattc tttattttat 60
tctaatcgac cataaaaagt taaataaaaa taaatgtgga ctttgaaact ctgattatct 120
tcgttattat tatattagtt aaattaaaca attttagtaa ggacgtctag ctagctcaat 180
agattgatat agtatttaat ttctgtggat aaaaaaaatc tttgtttgat actttaattt 240
tattctattc taaaagaaat tatttttatt aatagcttaa ttatataatt cgtcatttaa 300
ttataattaa aaattccatt gagttcgtca attattaaaa cattaaaatc tcttaattgt 360
ttaaacaatt tccgttatta tttttgtcc attacagaat caattatata attgagtcct 420
ttattaaatt aatgaaattg cacatgtgat cacaca 456

<210> 16893
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16893

agctttgagt tttntcaacc attgaatcaa aattctaatt tatatgtata tatctatcta 60
tatttgttta ccaatgatcg aaattttaat ttgacaacaa tgattgattt ggtactatat 120
gtaaaggaag cttaataactt tgtcagccgt tgggtataaa ttttaattaa taattattga 180

tttcattcaa taaatatcta gtatacttaa acattttattg ttgaatcaaa attctaattc 240
tataacaatc attcatatgg ctattgtaaa aatatttgta gaaaagacat ccaatatattt 300
atgcaacgga atttttttgt aaaaaagttt acacattttac aacaaacaga atttttttact 360
cccttgattg tatttttactc ccatcgtttt ataatcaatt taaaa 405

<210> 16894
<211> 465
<212> DNA
<213> Glycine max

<400> 16894

cttcttggtg gggtgatgca ctctatctcg tagaatggta tgatcactat cagacatatt 60
ctcaatcaat tcagttgcct cttcaagggg tttcaattct atcttccttc ctgctgaagc 120
atctaacaac tgcttggttt gtggtctcag cccatctata aacatgttca attgaattgg 180
ctcagagaat ccatgtgtgg gagtctttct taacaaaccc cgaaacctct ccaatgcttc 240
actcaaggac tcacagga actggtgaaa tgatgaaata acaactttcc cttttgcagt 300
ctttgactcg gggaagtatt tcttcagaaa tttctcaaca acttcctccc acgtcttcaa 360
atttttgcct ttgaatgaat ggagccactt cttggcttcc cctgccaag aaaatgagaa 420
taaactgagc ctgatggcat catttggcac tccatgaatc tttat 465

<210> 16895
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16895

tgccttgccc catgatatat ttgaggggact tatgatcact atgtatgaca aattccttgn 60
gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tctaatcat 120
aagttgaata gttaagggtg ggaccactta gcttttcact aaaataagca attggatggc 180
cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaaag 240
atttttgaaa gtttggaac gcgagtatgg nggcattagt tagctgttgc ttaagaacat 300
tgaaagcttc ttcttgtttc tctcccatt tgaaaccaac atttttcttg agcacttcat 360
tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420

catgtgtcgc aacctaccct tctgc

445

<210> 16896

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16896

agctntgaaa tctgaagttt aatattcaaa tgatcaaagt tcanaaaaaa tgcacacaca 60

tgacctctat ttatagccta agtgtcacac aaaattggag ggtttgaaat tgaatttgtg 120

gagccaaact ttggagccaa aatttcacta attatgatta gtgaatttta gttatgggtc 180

agccactaa tccaagatca aatataatat tctccactaa gtgtgcttag gtgtcatgag 240

gcatgaaaag catgaaggac atgcacaaag tgtgactata tgatgtggca atgaggtgta 300

gtaagcaaat gtcacctgc ccctctaaaa tntaattgga ttgngcttct accaattcaa 360

ttaaatttat ttccaaccac acacatcaaa tatccactta gtgcatgtga aattacataa 420

ctacccttaa taca 434

<210> 16897

<211> 470

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16897

tgtagggtta aagtctcacg attgtcacgt gtcacgcaa caatttggtt ccgtggctat 60

acgagacatc ttgccaaaca aagtcagggt cagcataact tgccctgtgct ttttcttcca 120

tgctatgtgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa acgagaccgc 180

aattatacta tgccagttgg agatgtatatt tccccctgct ttctttgaca tcatgattca 240

cttgattgtg catctggtca gagaaatcaa atgtcgtggt cctgtttatc tacgggtggat 300

gtacccggtt gagcgataca tgaagatctt aaaagagtat acaaagaatc tatatcatcc 360

gaaagcatct attgttgaga ggtacattgc agaagaagcc attgaatntt gttcagaata 420

cttagagacg gctaaagctg ttgggcttcc tgagtgtcng catgatgaca 470

<210> 16898
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16898

tgcttanact tgtgatcatt ctgcacagaa cgcaacctat ttattattaa caatntcata 60
 tcactctcct aaacttacaa catacaaatt taagcaagaa ttcagataac aaattccact 120
 ctctccctt ctatttaacc aactcaaac agttcaaat ccaattgacc actaatcaca 180
 accaatggaa ctcggtattct cgtactatca tttccacaaa gacacaaaca gctaataaag 240
 tcggtattat gtaaagcttg ctogctcgca tagtacctca tcagcaagaa ttttagagca 300
 gttgaagcaa acacaacgca ttatagttaa gacggctctt aaaaaaccaa tatggaacat 360
 tggcttagca agctccaagt gcccacaaatg gccagggcac tcagccatac tcgccgtgca 420
 agtttcacac ttcaactgtc tgtcaatggg tccaagccga gggtcactca atc 473

<210> 16899
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16899

tagcttgagc tctcacccaa tcttgcaaca caatgttggg tccaagggtta tcaaactcga 60
 cagtttacgt agactcgtaa gagttocata gactcaactc gtagacttat acgagtccac 120
 ttcatataaa aataataaca aaatatctat aaataacata ccaattaaac attntaaca 180
 tataataaag cagaatagta aatcataaat ttcacaatac tgaaataacc aagtctagta 240
 atgcatcact actagataat aacttgcaga ttttatagta gtggtagagc attcccatca 300
 aggatttgat gttattagag aatacgggtt tgatgttatt agaggtgaga gtttttcaat 360
 tcaggaacaa cacac 375

<210> 16900
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 16900

cgccgccgcc aactccctct ccacgcagct gccagagttc tgcttcgtcg tccacctcct 60
ctgcttcccg gaggtccagc ccagcctcga gaaacacacc gaagacgtcg atttccaaac 120
ctacgataac tctcagaact tctccaacta cggaacgagt cgacccggcg gaaccgactc 180
gttcagaaac tacgccacca ctttctccag cgtttccgac aacagtttcc gccgctacag 240
ccgccgatec gccggccacg aggacagctt cgtctcttac ggaggctcca tcggcgacat 300
ctaccagacc ttcaacacct atggcacttc ctcgcgtggc ggcgccggcg agttcaaaca 360
gtacgccacc gaatcaaact tccccgagct tgattttacc acctactccg acagctccgg 420
cgggaggagg cagtcgttct cgagctacgg cgagaac 457

<210> 16901
<211> 393
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16901

agctttctttt gtttgggatg tgtgtcttat cacgcaagat tgtatggtca ctagcagcca 60
tattcttaat taattccatg gcttcttcag gggctctcaa ttntattttt cccctgcag 120
aagcatctaa aagcttcttg gattgtggcc ttaaccgcgc actaaaaata ttgagttgga 180
ttggttctga aaatccatga gtaggtgtct ttcttagtaa cccacgaaat ctttccaaag 240
cctcactcaa ggactcgtct ggaaattgat gaaaggatga gatgacagct tttccttcag 300
cagtcttgga ctctatgaag tattttcttca agtatttttc aaccacttca ttccaagtct 360
taagactgtt accttataat gaatggagcc atc 393

<210> 16902
<211> 447
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16902

ctcatgtcaa cgatggagca aatgctagtg ctggtgggag gtttctcaat tgctgatttc 60
tacccttcaa tcaaagtgtc tccattgctc acaggaatga aaagtaaact tgaaagggcg 120
cacagagaga atgacaagat cctacaaaat atggtcaagg atcacaagga aaatgagaac 180

aagaatgggg, tgacgcacga ggatattatt gatattcttc tcanaactca naagagagat 240
gacttgga aa ttcccttgac tcacaacaac gtcaaagcac tcatctgggt tagtatgcaa 300
ttttctttaa cactacttta agattcccat gtatacaact atatactgac atagatatga 360
aatttgctga aataataact tacactttta tatatataga gagagaggga gagagagaaa 420
attgagtagc gacttattaa taaaata 447

<210> 16903
<211> 327
<212> DNA
<213> Glycine max
<400> 16903

acacctgaca tcacctatgc aggaagtgtt tgtgcaaaat atcaagccaa tcctaagata 60
agtcacttga atcaagtaga gagacatctg aaagatgtat atggcaccag cgactatggg 120
attatgtact gccatcgttc agatccatcg ctggtcggga atcgtgacgc tgattgcgct 180
ggacgtgcac acgacagaaa aagcacttct ggagaacgtt cctattgggg aaccaatcct 240
atatcatggg tcaacaagaa gcagaactgt gtgtcctatc tactgcagaa gccgagtata 300
ttgcagcagg agacactcga cacaact 327

<210> 16904
<211> 374
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16904

agcnttgatg catcatttgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60
gttgatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
tggtgttcct agacaaaacc gaattgatgg tattaactc aacattcctc catttaaagg 180
aaagaatgat ccggaggcct acttgagtg ggagatgaaa atagagcatg tattctcatg 240
caacaactga ggaggacaaa aaggtgaagc ttgccgccca cggaatttcc gactatgctc 300
ttgtgtggtg gaacaagcta caaaaggaga gagcaagaaa tgaagagcca atggttgata 360
catggacgga gatg 374

<210> 16905
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16905

acactataaa actaagcttg agatattaaa caacaataact nttactcgtt gtctgattga 60
 gtcattgtaatt atttcgagac gctcgaatt gaatacggaa gctctgagca aattcaaacg 120
 acaataactt tttactcggg tgtctgattg aatcccataa tatatcgaca agctcgaaat 180
 agaattctga tgctctgagc aaattcaaac gacaataact ttttactcgg atgtctgatt 240
 gagtcctgta atatatcgag acgcttgaaa ttgaatacgg aagctctgag caaattcaaa 300
 cgacaataac ttttactcgg gatgtctgat tgaatcccat aatatatcga cacgctcgaa 360
 atagaattctt gatgctctga gcacattcaa acgaccataa ctttttactc ggatgtccga 420
 ttgagtcctg taatatatc 439

<210> 16906
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16906

atctgctcgt cttgctgata tttatcatgc acactnttct gatgatgacc tangaacaat 60
 tagggatcaa cttgaaactt atgtgcttca agtgagaaga aatgcttctt tgtccacttg 120
 tgaagatggt caaagtttgg ctatgaagat ggttcagact gagaaacatt tggatatttc 180
 attggtttat aaacttattg agctagctnt gatattgccg gtgtcgacag catccgttga 240
 aagagctntt tcatcaatga agattatcaa gtctaaattg cgcaataaga tcaacgatgt 300
 gtggttcaat gacttgatgg tatgttacac cgagcgggag atattcaagt cgcttgatga 360
 tattgatatt a 371

<210> 16907
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 16907

agttttataa tgtagcagtt ccagggacca tcgacgaacg ggcgatcaat aaaaaaagaa 60
tactcaatcc atgggaaagg aatgaaaatc acacactntg cctcaactct gctaaagcaa 120
ttggatgtac agtgggtcaac attggcactc angacttcat tgaaggaagg gtatgtttgt 180
aggccttcta gtttccaccc ataaaagcag aattattgtg ggcattgtaca ctgcagaacc 240
aaaaaattta agatttaatt taatttataa atgaaatctg gtcagatttg attatttctc 300
gatcaaagta attctcaatc aagttaaccc cttttttaaa tgattccgaa tgctggtaaa 360
gtatctntat agcatgctac attntttttac agtcaaagcc tntctctatt cttnttggca 420
atgctacaca 430

<210> 16908
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16908

tgttgaagtc taaatagatg gtgactagac atttngtgat tcaaactcca tagaaggat 60
atagcaacta tttaattaaa aaacaacctc agaattcatt tagttcatat atttcgagga 120
gagctactgg tttgtttgga gtagtgcatt cagatgtgtg tggaccattt atggttcctt 180
ctcttggtgg gaacaatatt ttgtttcctt tgtagatgaa tttagcagaa tgttgtggat 240
ctttcttatac aagtccaagt caaaaaaatt ttcaatcttt aagaatttta agttacttgt 300
tgaaaagcaa tctgaaaaaa catattaaga tacttatgac tgatggtgga gttgagttga 360
gtataccttt aaagagtttg aagattattg caaaggatnt ggcattcaac atgaagtgat 420
attaatatg 429

<210> 16909
<211> 430
<212> DNA
<213> Glycine max

<400> 16909

tgataaatct atatatggtt taaaacaagc ctcccgtttt tggtagctta agtttcatgg 60

gataatttct tcatttgggt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120
 cagtgggagt aaaatatgtt ttcttttttt atatgtagat gatattttac ttgtagccaa 180
 tgatcaagtt ttgctacatg aggtgaaaca atttctctct aagaattttg aaatgaagga 240
 tatgggtgat gcatcttatg tcatcgacat taagattcat agagatagat ctcgaggta 300
 tttgggtcta tcacaggaaa cttatattaa caaaattcta gagagatttc agatgaaaga 360
 ttgttcacca aatgttgctc tcattgtgaa gggatgatagg ttaattttga accaatgtcc 420
 aaagaatgac 430

<210> 16910
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16910

agcttgtatg gttaaagtct cacgattttc acgtgctcat gcaacaattg ttagtcgtgg 60
 ctatacaaga catcttgcca aacaaagtca ggtagccat aactcgctg tgctttttct 120
 tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagttg gaaaatgagg 180
 ccgcaattat actgtgccag ttggagatgt ttttccccct gctttctttg acatcatgat 240
 tcacttgatt gtgcatttgg tctgagaaat caaatgttgt gatcctgttt atctacggtg 300
 gatgtacccg gttgagcgat acatanagat cttangaggg tatacaaaga atctatatcg 360
 tccagaagca tctattgttg agaggta 393

<210> 16911
 <211> 434
 <212> DNA
 <213> Glycine max
 <400> 16911

tcttggatgc ttactccaga tacaactaga ttaggatttt tgctccaaag gaggcgaaga 60
 tgacatttat cactaaagat accaactttt gctaaaggc tatgcccttt cagcctaaaa 120
 aatgtagacg ctacatacca atgactgatg gaccgagtct ttaaacaaca aataagacaa 180
 aacatcaagg tatatgtgga caacgttggc ggtaagtctc gaagcatagt ccaacatgtg 240
 gcagatctgc aagaagtctt caaggaactt tacaagtatg acatgcgcct caaccctgaa 300

aaatgtactt tcggggtagg cagaggcaag ttcctcgact tcatgatcac tcaccaaggg 360
attgaagcca accctaacaa atgccctacc atactagaga tgcacagccc gaccaacatc 420
caagaagtct agaa 434

<210> 16912
<211> 359
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16912

atctttgagc aaattcaggc gacaatatct ttttactcgt atgtctgatt gagtcccgtc 60
atataacgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120
tttttactcg gatgtctgat tgaatcctgt catatatcga gacgctcgaa attgaatgtt 180
gaacctctga gcgaattcaa acgacaataa ctttttactc agatgtctga tatagtctcg 240
taatatatcg agacgctcga aattgaatgt tgaagctctg agcaaattca aacgacaata 300
actttntact cggatgtctg attgagtcoc gtcatacatc gagacgctca aaattgaat 359

<210> 16913
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16913

tcaacattca attttgagcg tctcgtaatt ttactgtatt caatcagaca tccgagtaaa 60
aatttattgt cgtttggtt ggctcagaga ttcaacattc aatttcgagc gtctcgatat 120
attacgggcc tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggttcagag 180
cttcaacatt caatttcgag cgtctcgata tatgaccgga ctcaatcaga catccgagta 240
aaaagttatt gtcgtttgaa ttgggtcaaa gtttcaacat tcaattttga gcgtctcgat 300
atattacggg actcaatcag acatccgagt aaaaagttat tgtcgtttga attgggtcag 360
agattcaaca ttcaatntcg agcgtctcga tatattacgg gactcattca gacatccgag 420
taaaaag 427

<210> 16914
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16914

tagccattgc gaattatatg cagtcgaaca tatattatta tgatctttat ctttattctt 60
 tagtataaac agaaaagatc gactttgatc agtatatgtc ctatggcaat ctattaaaca 120
 atttaattaa ttaattattc gacagaatac atatctgcaa gtttcaatat atattttatt 180
 caacccaaaa cttatctata tcaggaatat gagtaattat gtttcaacac cataaatatt 240
 taaagaaaaa agtaaattag ttcgatatag ctataactaa atcatagcag attatcaatc 300
 aagttacatg tagtagtgta tcctattgaa atgaaactat ctttgagagt cttatgagct 360
 aagcacgtta gaatntggaa ttaggggtatc aggtggccca tgcattccac cact 414

<210> 16915
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16915

agttttttct tgtttctctc cccatttgaa accaacattt ttcttgagca cttcattgag 60
 aggtgctgcc aatgtgctaa aatccttcac aaattgtcta taaaaacttg ctaagccatg 120
 aaaactcctc acctcgggtca cggacttang tgtaggccat tcttgaatag ccctaacctt 180
 ctctcatca acttgcactc cttttgaact cacaacaaaa ccaagaaaca caacatggtt 240
 agtacaaaag atgcattttt caagattggc atacaattgt tcttctctaa gcacagtcaa 300
 gacagattnt aaatgatcaa tatgcaaatc aagtgaagtg ttatagataa gaatatcatc 360
 aaagtacacc acaacgaact ttcctatgaa ctctctcaaa tatggttcat agtctcatg 419

<210> 16916
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 16916

tccatcactg tatttggcca gtttcatgat tctctatatt aagaagaacc gatacatcca 60

cagtgacaaa attatggtgg aaggcaattg tagtggtggt gttcaacaca ttcttccacc 120
 taagtacaaa gaacttggag ttgtcatgat accgtgttcc attggttaagg ttgctgtagg 180
 aaaagctctc atagacttgg gagctagtat caacttaatg cctctttcca tgtgctggtg 240
 acttggagag atagtataa tacatacacg catgaccctc tagttagctt attgctccat 300
 cgcaagacca tatggagtga ttgaagatgt tttggggaag gtgaaacacc ttatattccc 360
 agctaatttt gttgcgatag acatagaaga ggacgctgat attcctctca ttcttgggtc 420
 cccattcatg t 431

<210> 16917
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16917

tgaacctcat cgccactact agatgactcc acttntatc tttctcctaa agacaacacc 60
 aagttaaaat caatcatcac aattacttgc catcaaagct actacctttg ccataaactt 120
 ttccccttag gtcataggga gcatatacat taatcacctt tgttggacaa gaggcctcaa 180
 taacttaaga gggggagaaa ttaagtttca aaatttccca ctaactaact ttaaccctt 240
 ttttaaata taggctcgaa atgcagaaga agaagcaaca atcaatttaa taatgttctt 300
 taaacatgca agacaaaatt gattgcaata acataaatga gataaggga gagagaaatg 360
 caaactcaat ttatattggt tcggccactt cacatgtcta tgtccagtcc tcaagcaacc 420
 cacttg 426

<210> 16918
 <211> 433
 <212> DNA
 <213> Glycine max
 <400> 16918

tcaatacagt gacactagt ttgcaacaaa ggagctgtct tagtcttttg gatgggatac 60
 atatgattct ttcattgcagc atgatgttca agaactaaat cgggttctct gtgaaaaact 120
 tgaagacaaa atgaaggtat ggcaagagat ttggaatgtt tgttcatgat tcttcttgat 180

gagtgatcat accaaaatggt tgttgtatgt tatttttctt caggaaactg ttgttgaggg 240
aactatacaa aagttatttg aaggacacca tatgaattac attgaatgca tcaatgtaga 300
ctacaaatca actagaaagg agtcatttta tggacttcc ttatgcattt tgaattcaat 360
tatatgttta gttcttcttt gttatgtaat tctaatttag tttttgcata tgcattgtag 420
atcttcagct tga 433

<210> 16919
<211> 305
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16919

agctttctga cctgagcatt tgaattgaga aaaagctcat tatcttcacg gcagaattcc 60
ccaatagcac gtacatcaac aaggttccca gagtctctaa tttgaagaat gtgtatagtt 120
tgatagcgaa gtgatacaat tgccaatagg tcatcataca agaagacccc catattatgg 180
gttanattaa cgaagtcatt actgaagacc ttcttgtcca agatctctcc atcttccagt 240
ctaatttagt aattaatagc tgagaaatgg gaacaatata taatctagag tgaacagagt 300
atgat 305

<210> 16920
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16920

tgtgcttcga ccaaccacgc ctcaatttac gtgccattgt gtaagttctt gcttaaaagt 60
gcaaccttca atgggaaatg taacaacaag ggtatttcta taacaattga tggcactttg 120
gtggctcctt cagattatag ggtcaccgaa aactccggtg actggttga attcgagcgt 180
gtcaacggag ttctgattca cggcggggcg cttgacggcc aaggcactgc cttgtgggat 240
tgcaagaact ccggcaaagg aaactgcccc agcggagcca cggtatgtta aattaattaa 300
tttaactctc atggattgaa cattattcgt tgacatgcac aatttcttgc tcccattatt 360
attgttntga tttgatgttg gaggtggagt tgtggacttg gtgattactg agagtttctt 420

agtggggga

429

<210> 16921

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16921

ntaccggtat ccccatthttc agaaaatgga ggtgtttatt caagtcactg ctatgctcgc 60

tgttggctta atccaacctt gccatagtct gttctcttct ccgatactcc tagttaagaa 120

gaaagacgga acctggcatt aaagggcact aaaggaaatc acggttaaag attgttttcc 180

tatgccaaac attgatgaat tactcgacga tttgggccaa gcatcatggt ttttgaagct 240

cgatttatgc caaggatttc atcagatacg tatgggtcaag acttacattc ataagacagc 300

ttttcaaatg cactagggac attatgagtt taagggtcatg ccctttggcc tttataatgc 360

cccttctact tctcaagcaa ccatgaatga tgcgctcdaa ccatttctga ggaaatatgt 420

<210> 16922

<211> 427

<212> DNA

<213> Glycine max

<400> 16922

ttcctttgag aatccacgaa gcattatttc tcttgtttac caaagttaat gtcgctgatt 60

gaatggcagc aaaaagtgc aaaatagctg tactagagta ttgacatggg tattttttgc 120

taatctttgc ttgtataatg aaccatgaag accacaggag gcaacctaga gtcagaagta 180

tggagcctac aatccatttc tctaacttgg cagctggaag cgtgcttgta attttgtttg 240

ctatgtgttg agattgtggg ttgataaggg gcattccttt ataaaggacc aataacaaag 300

ctccaccaat gcacaccaa gttcccatga ctttggctgt accactcttg ctttgcattg 360

tcaccttctc taccctagaa aaatttcaag ccaaaggatc aaaagtattt ttcttgtatt 420

ccacaat 427

<210> 16923

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 16923

agctttatgg agattcatgc atcagggaaac aatttcactt taaaagtggg tcccaattgg 60
cttcctaatt ttcagctttt ccatttggat gtgagatcat ggcagttagg tcccagcttt 120
ccatcggtga ttaagtcaca aaacaaactt gaatatttag acatgtctaa cgcagggatt 180
attgattcta tccccacaca gatgtgggaa gcacttctc aggttttgta tttaaacctc 240
tctcataatc acatccatgg tgagagtggg actacattaa agaatccaat atctatcccc 300
gttattgatc taagctcana tcacttgtgt ggtaaatacc ctatctttca agtgatgtgt 360
ctcagttaga tcttt 375

<210> 16924
<211> 428
<212> DNA
<213> Glycine max
<400> 16924

tagagagatt cccgatctga gagggtaactg ctccgtctgc aacagctctc aggtcaagat 60
acaccaaatt tgagagattc ccaatctgag gaggaatctt ccccatgaat ccagtatgag 120
agaggttgag gtgagtcaag gaagtcattg tcccaaggaa agaaggaatt gacatacctt 180
ctccaaggta ttcattggcg ctcaagtcca agtaattcaa atgcttttaa tcagccaaac 240
aaggacttat ctctccacca aagctccatc tctataagc ttcccaatca tcattgaaaa 300
tagaatctga agagttgagg tgaagctgaa gaagatggga agtaaggttg tggcagagga 360
ctccatacca gtggcaacag ttggtattat tatgattcca agaccaaagc ctattggaag 420
gatctatg 428

<210> 16925
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16925

agtcttatct tatcatttag taaaaaaaaa aaaagttggg gacagtgtgt ttcttttatc 60
tgtcaacttt ctcccgtttt ctcaattaaa atggggttaa tgatgacca cgttatggaa 120

acaaattatt gttctcacat anaatttgta tccattcgct taatcaacaa catcatcgct 180
 aaagagctta aattggtggg catcaagaac caatttcctt atagaagaga atgcgccccat 240
 tattccaaca cccgtgaaga ccaccataat tgaggtgtta atccaataag tgaaggatga 300
 atttgagggc ttgtatgtca tgttgtagat aagcataggc agaacgaaat ccaaagggat 360
 gaaac 365

<210> 16926
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16926

ntccaagatg gccaaagtca agcctaacga tgggttattt attgaaaggt gcaatacaat 60
 tctgtgtatg acattcaaat ttactatgt tagtaggtaa gattaaggat tgggcagtgt 120
 tgtcatggac tatcgaaaag atttccaagt aacaagaagc atccgatgat gttcgataga 180
 attcatatat tgttggtgct ttagaaatat atttggtatt taattccaat tatattttga 240
 ccaatttcatt ttacgtttt taacaaaact ctttataatt ntagtctgct ataataacg 300
 aatcattgta gagtaatatc ttaaaatttt aatgattaac taagatcagt gtattatgca 360
 tttcaattaa tataaaaact tgtatatctc atagtatata aaaacttgca tacttcatag 420
 gaaatatttg ataa 434

<210> 16927
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16927

atttttttat gtgtctagct actatataaa ataacaacat ctatatgggtt atttttttaa 60
 aagaaaaata gtgaaaataa aaatatgaat cgggtgaaatt aaagaaaaag tatagtaata 120
 tggagaattg agttgatgat gatgacctgc atgagcatag aaccatgcag ggccgagtgc 180
 ttgaatgtgc ctaaagtagc gtgcggtgat ggctccatt ggtaacaaaa tgccccacga 240
 tatggcggtta acggtgccat ggatcactct caacgtcgtg agatccgtgt gctgtggagc 300

cgacgaaccc gacaatacgt canaggtaac aatggaagac agatcgggtg aagtagttgg 360
atgaatggtg ggagagtagc cctgaacgta 390

<210> 16928

<211> 268

<212> DNA

<213> Glycine max

<400> 16928

tatctcttca aatcattttg aaaaggcacg aactacctat atatatgggg gtctgatttc 60
caaaagcaag agagagatat tcccagagaa cttcattgtc aaatgctctc tcaacaactt 120
ttgggcgaac acttgccaat ctattaagag ttcattccaag aacttcaaat gtaatacctt 180
tcttttaaag agagaattct tcttcttctt attaaaagag attgattaat ggaccgagag 240
tctcttaagt tgtaaggatt cctgaaca 268

<210> 16929

<211> 431

<212> DNA

<213> Glycine max

<400> 16929

tgataaatct atatatggtt taaaacaagc ctctgtctg tggtagctta agtttcatgg 60
gataatttct tcatttggtt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120
cagtgggagt aaaatatggt ttcttttttt atatgtagat gatattttac ttgtagccaa 180
tgatcaagtt ttgctacatg aggtgaaaca atttctctct aagaattttg aaatgaagga 240
tatgggtgat gcatcttatg tcacgacat taagattcat agagatagat ctcgaggtat 300
tttgggtcta tcacaggaaa cttatattaa caaaattcta gagagatttc agatgaaaga 360
ttgttcacca aatgttgctc tcattgtgaa gggatgatagg tttaatttga accaatgtcc 420
aaagaatgac t 431

<210> 16930

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16930

nttgcccaat atagctttga aattntctcc cccttggtca caaccaagtt acccttggtg 60
agttttcact ttccagaacc atgggtggta tcataaccag catcatcaag tacctgcaca 120
gagatcaaat taaagcgaac atctagaagca tgtttcactc ctctaagtag caactgtatt 180
cccatgttgg ttgcaaaca aacatcacca acaccaatca ccttggacac gtcattatta 240
cccatcttca agactccaaa atcacctgga gtgtaagatg tgaagaactc cttcctgact 300
gtaacatgca atgtagtacc actatcaatt atccacatat tcttatcaga tacaagatta 360
agcgaatcag ggtcatggag aataacaaga tcatcactgg tagcagtagt cacacagtca 420
tcatcatgat 430

<210> 16931

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16931

agcttcgtgc ttaaatatgt atggcaaaac ttcattactg ttgttcaaga catagaagtg 60
agcttgtaac aaatcttcta cacttggagt gatcacctgc agtcctcttg aacccttacc 120
accactctg tcatcatgcc gacactcang aagcccaaca actttagcct tctctaagta 180
ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttccgg 240
acgatataga ttctttgtat acccttttaa gatcttcatg tctcgtcaa ccgggtacat 300
ccaccgtaga taaacaggac cacaacattt gatttctctt gaccagatgc acatcaagtg 360
aatcatgat 369

<210> 16932

<211> 377

<212> DNA

<213> Glycine max

<400> 16932

atgcttcttt cactaattta taactggaga atatatttat gtttaacaaa actagttcat 60
aagttatata aaagtttact aatttttgaa aatttattac aatgacttat tcaattataa 120
tagttgatta aaattgggaa ttgaagtagt gtaagataat aaaaatggac atatattttt 180

acataaattc tagagtaaaa tatgttttta gtccttaaaa aaatttacia atttgatttt 240
 agtcattaaa caatcttatt tttgtccccc taatatagaa ataataatgt cacaatatat 300
 actatcaaga tcgaagatag agtattttcca atttagagga gcaaatacag acaaaagaat 360
 ttagatgact ctaaatac 377

<210> 16933
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16933

tcgtgacgaa ctatttatgg aaaaacttca ttgtngttat ttagtatata caaatgagtt 60
 tggttgaatt tctctaacat gcaaccctcg tgaacccttt cctccactc tctcatcatg 120
 ctgagacttg ggaagcccaa aaggttccac cttttcaatg tacttttaac aaaatttaat 180
 agcttctttt gcaatgtacc tttcaacaat ggatgcttca agatgggtata tattcttcgt 240
 ataccctttt aagatcttca tttatcgctc aaccggacac atccatcgta aataaatagg 300
 atcacacaat tgaacttccc ttaccagatg aacaattaag tgaaccatga tgtccaaaaa 360
 tgaaggagga aaatacatct ccagctaaca taagataata gcagtctcat tttccaagtc 420
 atctaacttt at 432

<210> 16934
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16934

agctttatac ttgagattga atagttttaca atctccgtcc agatctagaa gtcatagaca 60
 accaacttaa gaagaaaaag aggaaaagga gtattcatat ggaacaagtc atggaagaag 120
 gcgaagaggt gaaccaagaa tagataatca tttggggagc attaagatga caatccctac 180
 atttcaaggc aaaaacaatc ctgagttgta tttagagtgg gagtgaaggg ttgaacatgt 240
 gtttgattgc cataattatt ctgaggaaaa aaagatttaa ctagttgttg ttgaattcct 300
 tgattatgct agtattttgtt gggatcaact tgtgactaat angcacagaa atggtgaaag 360

gcctattagt agatgggagg agatgaagac tgtcatg

397

<210> 16935

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16935

atTTTgtatc tacatagagt agaagataga tcattgatcc atcctccacc ttgttgtgat 60

aaacacaaca atcatagaga cttctcttga atccttggct ggtgataaag ctatcaaacc 120

tcatgtacca ttgccttga gattgtttca aaccatacaa ggacctttgc agttgacaaa 180

catacctttc ttttacttga acttcaaacc cttcacgctg tttcattaga atatTTTctt 240

ccaatqttcc atggagaaaa gcagtcttga catcaagttg ttcaagttcc agatcttggT 300

ttgccactat agcaagcaga accctgatgg atgtatgcct aaccataaga gaaaaaatnt 360

cgttgaaatc tatntcttct ttctagctga atccctt 397

<210> 16936

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16936

agcttgtatt gtaagaaatg acaagaaact acggaatccg aaatagaatc aatgaagatc 60

aacaaagtat gggctttagt tgaagcttca aaggatataa aaccaattgg ttgtaaatga 120

gcttacaaga aaaggattgg agcaaattgg aaggttgaaa cctacaaagc tcatcttgtt 180

gccaagggat atgtcaaaag taaggatatag attatgacaa aacttttctc ccgtggcaat 240

gctcanatca attcggattc tttttgctat agtagcatat tatgatcatg anatatgaaa 300

tggatatgga aaatggTTTT acttaatggT gagctaaaat aatgtgtata tgacacaacc 360

tganggatca caccttgtct g 381

<210> 16937

<211> 424

<212> DNA

<213> Glycine max

<400> 16937

tgtgtcacga ttcactgtga cagtcaaagt gtcattttct tagaaaatca ccaaattgtac 60
catgagagga caaagcacat agatgtgaaa ctacacttca tcatagatgt gattgaatct 120
gagaagggtga aggtggagaa ggtttcaaca aaagaaaacc tggctgatat gttcacaaag 180
tccctctcta gtgtcaagtt caagcactgc ctggacttga tcaattttga agatgcctaa 240
agcagattgg tagaagtgc gccctaaatc acaaggtaga cacttgctga tttggagtca 300
aggtggagat ttgtggtgtg tgactcaaaa tcacattggc tcaagtgaga aggtttttaa 360
gtggtgttgt cataactgtg ttcagtcatt ataattgaat taggtttcac accaatgtat 420
agtc 424

<210> 16938

<211> 430

<212> DNA

<213> Glycine max

<400> 16938

acagcttcat taagaggctt cctctagaag ctctctcgtg acttcttcga gaagctttct 60
caagaggctt ctttgagaag ctacatcctt atctatccac ccctctatta actaaattaa 120
cttctttaa aattattacg gatgaaaata acgcaacaaa taatcaaaca tcaaacataa 180
ttactaataa tatatatata tatatatata tatatatata tatatatata tatcaagggtg 240
ttacaactct cccacccttt tagaaatttc gtgctcaaaa tttaccttac tcaaacaagg 300
atgggtgagc ttctcgcatc tgactttcta attcccacgt ggcattctct cctgatgcac 360
ctccccatat caccttgacc aacggaatct ctttccctct taggtgtggt gtacgcctat 420
cctogatcct 430

<210> 16939

<211> 368

<212> DNA

<213> Glycine max

<400> 16939

tcttcttcgt gcttaaataat gtatggcaa acttcattac tgttggtcaa gacatagaag 60
tgagcttgta acaaatcttc tacacttgga gtgatcacct gcagtcctct tgaaccctta 120

ccaccactc tgtcatcatg ccgacactca ggaagcccaa caactttagc cttctctaag 180
tattctgaac aaaattcaat ggcttcttct gcaatgtacc tctcaacaat agatgcttcc 240
ggacgatata gattctttgt ataccctttt aagatcttca tgtatcgctc aaccgggtac 300
atccaccgta gataacagga ccacaacatt tgatttctct gacagatgca catcaagtga 360
atcatgat 368

<210> 16940
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16940

ctgatntgt gaggaagata acggttcaact tactatctat ctttattaca ttcaaataac 60
acatatatac atacagcaag aagaggagag agacagctta acaagacaag acatattgtt 120
gtcttctacc ataagctaag caggaaatta ggtaagataa aaaaaataga aaatacacat 180
aattctaaca ctccccctca agttggagca tataaatcgt atgcaccaag cttggagcat 240
ataaactgaa tcttaggcct ccttaaggac ttagtcaaaa tatcagctgg ctgatcatta 300
aaattaatga actcagtgcac aatttctttg gacagtagct tctctcggat aaagtgcacag 360
tcaatctcta tgtgcttggt cctcttatgg aagactggat ttgaagcaat gtgaatagca 420
gcctgattat cac 433

<210> 16941
<211> 346
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 16941

atcttatgag agagtcaaag atcaaattga gaggaaaaat aaaagttatg ctaaacaagc 60
caacaaaggg agaaagaagg ttgtcttcaa acccgagat tgggtttggg tgcacatgag 120
aaaagaaagg tttccggaac aaaggaaaac aaagcttcaa ccaaggggag atggaccatt 180
tcaagtgctt gaaagaatca atgacaacgc ttacaaagtt gagctgcccg gtgagtataa 240
tgtagttcc accttcaatg tctctgattt atctctntnt gatgcagaat ggagaatccg 300

attgaggaca aatccttctc aagagggaga gaatgatgan gacatg

346

<210> 16942
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16942

taacaaaagg catgcgaaga ggggtggaatt cttatatcaa ttcccttatg ttatcaaaca 60
taaaaaggga aaaggaata ttgtagccgg tgctctttct cggcgtcatg cattactttc 120
tatgcttgaa acaaaattga ttggctttga atgtttgaaa agcatgtatg aaaatgatga 180
aacttttgga gaaattttta aaaatcgtga aaaattttca gaaaatggtt tcttttagaca 240
tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctacaaattt 300
gcttgtttgt gaagcacatg aaggagggtt aatggggcat ttgggggtcc aaaagactct 360
agaaacatta caagaacatt nttattggcc tcatatgana aaggatgtgc agaaantttg 420
tgaacattgc 430

<210> 16943
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16943

gcttgtccgg gaacagttat gcatgagttc atagatgtgt gctttcttgc gtccttccga 60
acagagtcca ataagtatga caacattaac atgagaagtt ctactgatac actattagaa 120
aatatgtttt ctacatcggg tatttatgac tttcaacatc ggcttttcag ccgatgttga 180
aagtaccgac gttgatagta ttatcggtta catcggcttt tgagaaaccg atgttaacgt 240
aaaattacca acatcgggta tataaataac cgatgttgct aatatgaatt acaccagac 300
aatgtatatt aatgttgaaa gttacatcg gttcttactg aaaaccgatg ttgttatcaa 360
gaanttttct ttatataatg tctgtgtaga caaccgatgt taacgaatgt gtgact 416

<210> 16944
<211> 395

<212> DNA
 <213> Glycine max
 <400> 16944

agcttgaagg taaactagat gccttgggta acctggtaac ccaactggcc atgaataaaa 60
 aatctgcacc tgtcgccaga ctctgtgggt tatgtctctc tactgaccac cacacagacc 120
 tttgcccttc tatgcaacaa tctgaagcaa ttgaacagct tgaagcttat gcttcaaaca 180
 tctacaatag acctcctcaa cctcagcatc aaaatcagtc acaacagaac aattatgacc 240
 tctccagcaa caggtacaat cccgggtgga ggaatcatcc caaccttaga tgggtcaaatac 300
 cttcacaaca atagccttat tttcagaatg ctactggccc aagcagacca tacgttcctc 360
 caccaatcca gcagcaacaa caacaacaac aacag 395

<210> 16945
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 16945

tcatagctta gcaagtgtc agtttcctgc caatgtaccc cagaaagttg ataagcactt 60
 cttcacagtg ggccttggca caactccctg cctcaaaaat caaacttgtc aaggacccac 120
 caatgcaaca aaatttgcag catcagtgaa caatgtctct tttatacaac caaccactgc 180
 acttcttcaa gcccaattct ttgggtcaatc caatggagtt tactccccctt actttcctat 240
 tagtccattg gttccattta actatacagg cactccacca aacaatacca tgggtgagcaa 300
 tgggacaaaag gttgtggttc ttcccttcaa cacaagtgtg gaactagtga tgcaggacac 360
 cagcattctt ggtgctgaaa gtcaccctct ccatttgcac ggctttaact tctttgttgt 420
 tg 422

<210> 16946
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 16946

agcttctaca ttcaattttg agcgtctcgt aatattacgg gactcaatca gacatccgag 60
 taaaaattta ttgtcgtttg gattgggtca gagattcaac attcaatttc gagcgtctcc 120

atatattacg ggactcattc agacatccga gtaaaaagct attgcagttt gaattagctt 180
 agagcttcaa caatcaatth cgagcgtctc gatatatcac gagactcaat cagacatccg 240
 agtaaaaagt tattgtcgtt tgaattggct cagagcttcc acattcaatc tcgagcgtgt 300
 cgatatatta caggcgtcaa tcacacatcc gagtaaaaag ttattgtctg ttgaatttgc 360
 tcagagcttt aacatt 376

<210> 16947
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16947

ctgagccaat tcaaacgaga tattctttnt actcggatgt ctgattgagt cctgtaatat 60
 aacgagacgc tcgaaattga atattgaacc tctgaggaaa ttcaaacgac aataactttt 120
 ttctcggatg tttgattgag actcgtatta tatcgagacg ctcgaaattg aatgttgaag 180
 ctctgagcta attcaaacga caataacgtt ttactcggat gtctgaatga gtcccgtaat 240
 atatcgagac gctcgaaatt gaatgttgaa tctctgagcc aatccaaacg acaataaatt 300
 ttactcggga tgtctgattg aggcccgtaa tatatcgaga cgctcgaaat tgaatgtgga 360
 agctctgagc aaattcaaac gacaataact ttttactcgg atgtctgatt gaatcctgtc 420
 atatatcgag acgctcgana ttg 443

<210> 16948
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 16948

agcttgtttc ctttacaatt ggagtcatga ctaatgaaca tgtacttctc acttttgtca 60
 tccaacttgt ttgtatctca tttggcatgt gcacatgacc aatgcttcca aacactttta 120
 gatgtgaaat gacgggctta cttccattcc atgcttcttg tgggtgattat cctcatcac 180
 tctttgatgg agactgggta gaaaggtaaa ctgcacaagc cactgcttct gcccagaact 240
 cctttggaag tcttatgtgg atcaagaggc ctcaaaatac ttatgaaggg ggggtcgaat 300

taattattcc taaacctata ctaataaaga aatcactctt ctaacgcttt tacttacgtt 360
tgtgagagaa.tattga 376

<210> 16949
<211> 436
<212> DNA
<213> Glycine max
<400> 16949

tgaatcggac ctcaagtgtga aatgttatga ccattttaat ttcacgagag cttccgttgt 60
tcatttttga acgtctctat atgtgatgcg ccttaatcta acatccgtgt gaaaagttat 120
gaccatttga atttctcaag agcttacgtt gttcaattat gagcctctcg acatattatg 180
cgcccgaatc ggacatccgt ttaaaaagtt aagaccattt gtatttctcg aaagcttcct 240
tggttcaatt ccgagcatct cgacatatta tttgcccgaa tctgaccttc gtgtgaaaag 300
ttatgaccat ttgaatttct cgagagcttc caatgtttaa tttcgagcga ctcgatatat 360
tataagcatg aatcggacct tagtgtaaaa agttatgacc atttgaattt ctcaagagct 420
tccgttgatc aatttt 436

<210> 16950
<211> 393
<212> DNA
<213> Glycine max
<400> 16950

agctttttaag ataccgagaa agatagagct gtttgtaatt ttagtccttt gttctgtttg 60
atactccata ataaaatggg atattactat tattattatt tgttctaata aatcatttac 120
tattattatt ttattttatg gtttgcgaaa taaaaagaag ataggagggt tttctagagg 180
tgaatgatga gaccattcca tgccctctca attaagtgtt tttcattgaa tctctatatt 240
tttgtcgggt caataacata tttttgttat cagctgggtga tcttattgat gatgagaatt 300
ggcctccaat tttcctaate attcatcatg atattgcaa taagataccg attcatgctc 360
aaaggctgca atatttggcc tttgcaagtt ggt 393

<210> 16951
<211> 389
<212> DNA

<213> Glycine max

<400> 16951

agcttggcat tgaacataac ttttctgcac ctagaacccc tcaacaaaat ggagttgttg 60
aaagaaaaaa taggtctttg gaagaaattg ctagaacctt attaaatgat actcctcttc 120
caaaatattt ttgggctgaa gccgataata ctgcatgcta tatcatgaat agggctttaa 180
taagacccat tttaaagaaa actccatgat aactattcaa tggtaggaaa ccaaacatct 240
cgcatcttca tgttttttgt tgcaagtgtt ttgtattaaa caatggaaaa agaaaactta 300
ggaaagtgtg atgctaagta agatgaagga attttccttg gttattcttt gcatagtaaa 360
gcttatagaa tatataataa gataacaat 389

<210> 16952

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16952

ntggaatgaa tttgttttct agcaaaacaa attattatac ctatagttca taaggctaaa 60
tggaccaatc taagtgttgt gcttttattt gttttttgct tagctagtct cttcttaagt 120
aatctccctt gtttttcttg aacaataggt ggcagaacgt aacaatgac ctcaattggc 180
agacttcatt gagagcgagt tcttgtatga gcaggtaaaa cttgcagttg aattcatagt 240
atggttggat ttcataagat ataagactcc ttgaccattg tatgtaatac aatactctga 300
actctttacg tcctanaata attgttgtct ttacacgga tcaagaaaat aataataaat 360
aaatgaatga aatagtaatt ntacacaagt aaccttacat tatcattaat ttatttctaa 420
attctataat tggttctcaa t 441

<210> 16953

<211> 393

<212> DNA

<213> Glycine max

<400> 16953

agcttataag gtgttgtcca atcgggtgcc tggatgatgg gggtagtagt caacgctctt 60
ttgaggcaat caaaagcctc ttgcatctg tcattaaagt caaactccac ctccttttgc 120

aacaagttgg acagtggaag ggctactttt ctaaaatccc ttataaagcg cctgtagaat 180
tctgcatgac caagaaaaga tcacacctct cgcacacaag aggggtaagg caattgtgaa 240
ataacagaaa tttttgcagg atctacttca atacccttat tggaaataat gtggcctaaa 300
actatacctt getcaaccat aaaatgacat ttttcaaaat ttagaacaag gttagtttca 360
atgcatctat tcaaaacttt ttccaaaacta ttc 393

<210> 16954
<211> 382
<212> DNA
<213> Glycine max

<400> 16954

agcttttttag tttccaagtg ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60
caattcatca gcgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180
gtattcatag ttgcttccat caagaattgg tggactgttc actggtcctc cttctttctc 240
catgttcac cagaatttatc tccccacatc tcaactctgtg attgcgagtg ttggctctga 300
taccaattga aattctgata ccatgggaca gatgtcgtac aggatgtcac gacatcacgc 360
ttcagaacat gcagcatatg tg 382

<210> 16955
<211> 445
<212> DNA
<213> Glycine max

<400> 16955

tgatctgcta tagggttacc atcagattcg gatgcattat gctgatatcc ccaagattgc 60
tttcagaacc caccacgtcc attacgagtt taacgtattg ttgtttgggt tgtgcaacgc 120
accgtcgtcc ttccaagcca ccatgaacct gctttttcga tcgtatctcc gccacttcat 180
catcgtcttc ttcgacgata tctcatata cagttcttct ttcgaggctc acctgagcca 240
tttgaaaact gcttttcagg tgctgcttga caatcattct gttttgaaat tgtctaaatg 300
tttctttgtg cagcctcagg tggagtacct tggacacatg gtttcttgac gaggagtggg 360
acctgtggct tctaaagtgc cagccattca tcaatggcat gttcctcatt ccatcaaagt 420

cgttcgcac tttctaggcc tcgca

445

<210> 16956
<211> 389
<212> DNA
<213> Glycine max

<400> 16956

agcttcttag tttcagatga tgcagatggg tttgtagcta cctcatgcac tcctctaattg 60
actatggcat catttctggc gctaaactgc taggagttgg aagccatctt ctctattaaa 120
tttctggctt cagcaggagt catgtctcca agggctccat cactggtaga atctatcata 180
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240
tgatgggtggg ggcaactggc acatagtttc ttaaattctct ccagttactc atacaggctc 300
tctccactga gttgtctaatt acctgagata tatttctctaa tggttgtggg cctggaagca 360
cggataatgt tttctaaga tactctctt 389

<210> 16957
<211> 438
<212> DNA
<213> Glycine max

<400> 16957

tcaagaataa tgacatcatc caattattta tttcccgaag ggaattctat aaataggcct 60
cctattttta atggcggtggg ttaccattat tggaaaaccc gcatgcaaatt ttttatagag 120
gtaatagatc tgaatatctg ggaagcaata gaaattgggc cctacattcc cactatgggtg 180
gcaggaaata caaccataga aaaacctagg gaagaatcga gtgaggaaga aaagagatta 240
gttcattaca atttaaaagc caaaaatata attacatctg cttaggaat ggatgagtac 300
tttagggat caaattgtaa aagtgcacaaa gatagtggg ataccctaca attaacacat 360
gaagggtaca cagatgtaaa aagatctagg ataaatacat tgactcgtga atatgaatta 420
tttagaatga atccaaat 438

<210> 16958
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16958

tgcattgtcca agttttcttgt gccataccca gggatttctt ttgatagata atagacatgt 60
tacatcttga tttgatagtt cactaggatt aatcttataa agtfttcttt tcctcttagc 120
agtaaaaatt tgggtcccat tttcgtgttg gatgacacac ccacctttgc tgaaggaaac 180
atcaagtcca atctacata attgacttat gctaagcaga ttgtatttaa gtcctttaac 240
aaatagtaca ttctcaatgg gaggataggg atcaatactt atctttccta ctctttctat 300
cttccctccg aaaatgattg ctccaccatg catgagggtc agacattgga atatacattt 360
ttctcatgtc atgtgatgtg agcagccact gtccagggtc catgattggt gtgtttntgt 420
tgtggttgaa tatatccgca acaag 445

<210> 16959
<211> 392
<212> DNA
<213> Glycine max

<400> 16959

agctttattc tatctgcaat gtttaacaac ttaaaggacc aatgtctgat tctccccact 60
atcttctcca caagaggcag gtaatgatgg acattgagtt tcttgcaaga caaaggaacc 120
cccaaatac ggacaggcag agatccctct tcaaaccttg tgatcttctt tataactcga 180
atgatgtcac aattcaagcc accacaaaac accttacact ttgttggtt aatctgtagt 240
cctgtagact tacaaaagaa actgaaagcc tttagaatca tctctataga cttctcatca 300
cctctacaaa gaagaagaac atcatctgca aagggcaa at gagtaatcct caatcgctca 360
cattggctgt gattattaaa gttaggatct ct 392

<210> 16960
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16960

ctcagctatg ctgcnacatt ataatagacc cctcagaag catttccaac aacagcagaa 60
taattatgat ctttcaagca acagatacaa tccagggttg aggaatcatc caaatttgag 120

atggacaagt cctccacaac aacaacagcc tgccctacc ttccagaatg ttgttggtcc 180
aagcaagcca tatgttcctc ctccaatgca ataacagtag cagaagtcac aacaagaca 240
acaagcaact gaggtcctc ctcaaccttc cttagaagag ttagtgaggc aaataaccat 300
ccaaaatatg caatttcaat aagagacaag agcctccatt cagagtctga caaattagat 360
ggagcaaagt gctactcagt taaaccaagc tcagttccaa aattctgaca aattgccttc 420
acagactgtg caaaatccga aaaatg 446

<210> 16961
<211> 365
<212> DNA
<213> Glycine max

<400> 16961

agctttatac ctatgcttct ccttcttctc cttgaaaagg gccaggagag acacaccaga 60
aaccttcacg accttgaacc tgactccagg aataccaccc acggcatgac cttttcgtcc 120
aaatccagct atcatgactt cattctacaa ccatcaacca cataacatta ggataagcat 180
atcagcacca acataacagc aaaataaagt aaatatgatt gatgaatcac ttacattctc 240
ttcaatataa tttaagcaac cgtcatttgg cacaatgca gcaatcttct tccatttttg 300
atgagttgac cctggcacat tttcaatggc agagttgggc tgcttacctc ataccactgg 360
catag 365

<210> 16962
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16962

tctggtggga catcttgatg caatcctccc taggaaggga ccaatcacta gaaccatgag 60
caagaggctc caagaagatt gggctagagc tgctgaagaa ggccctaggg ttctcatgaa 120
ccttagggta gatttctgag cccatggggc aaggttgggt ccaattatct ttgtacatat 180
tagactagga tgtcattata ttgggtcctt gtatataggg ctccatattg taggtagggt 240
accctagaaa tataggatgt ttcagccctt gtattttttg ggcacctaga ctagttttta 300

tattaggggt agtntgttaa tttcacatgc actaagtgga tatttgatgt gtgtggttgg 360
 aaataaattt aattgaattg gtagaagccc aatccaatta aatnttagag ggggaggtga 420
 gcatttgctt actacacccc attg 444

<210> 16963
 <211> 445
 <212> DNA
 <213> Glycine_max
 <223> unsure at all n locations
 <400> 16963

tataacatga ttntgtgtn cacatcccct ggagcatatt ttgacttatac attcaacaaa 60
 gacaagggac caccaactta cagaattcaa ggtcaatctt gccatctaatac agggagttta 120
 ttaccaatgc caggaaaacc tcctaaattt tctcacttgt atatctatgg tacagagaat 180
 aaaatccaaa atagaattgg aggccttaagg taaactataa ttcttataac agatactaaa 240
 gtcataataa taaattgatt gttcttaggt tatattaact tacaagttta ataatgcaga 300
 tttgggaacc aacttgatcc aaagattggt gccaaagttaa aagatatggt ttaccatcat 360
 aatgtctttg ctaaattctt cggaatggca aaggaaatat ttgagaagat aaaatcacat 420
 gatctgaaat tgcaatagat atctc 445

<210> 16964
 <211> 437
 <212> DNA
 <213> Glycine_max
 <223> unsure at all n locations
 <400> 16964

tcacaaaagt ttatatggct tgaaacaagc accgttgctg tgatacaaaa tgncaatga 60
 gtttatgagc aactcaggat tcaaaagatg tgacatggac cattgctgct atgttaagaa 120
 atataactaat agttatgtta tcattgtcgt gtatgttgat gacatgttga ttgcaggatc 180
 tagtatgaca gatattaaca agttgaagta gcagtgggca gaaaactttg aaatgaagga 240
 tcttggtcca gctaaacaaa tccttggtat gagaattctt agaaacagat cagaatgaat 300
 cttaaagcta tctcaagaga aatatatata canattgctt gacaggttct accttgagga 360
 ttctaagacc aggaataccc ctttgggatc tcatttgaag ttttcaaaga agcaatcttt 420

gcagacagat gaagaaa

437

<210> 16965
<211> 436
<212> DNA
<213> Glycine max

<400> 16965

ttcactcggg tgtccgatgc acgcgcatca tatatcgagt tgtctcgaaa ttgaacaacg 60
gaagctctcg agaaattgaa atgatcataa cttttcactc agatgtccga ttcagacgca 120
taatatatcg agacgctcga aattgaacta cggaagctct cgagaaattt aatgattat 180
gaattctcac tcggatgtcc aattgaggaa catcagatat cgagacgctc gaaattgaac 240
aacggaacct ctcatgaaat tcagatgggtc ataacttttc acacggagat ccgattcaag 300
cacatcacat atggagacgt tcgatattga accacggaag atctcgagaa attcaaatgg 360
tcataacttt tctactcggat gtccgattca cgcgcatgat atatcgagac gctcaaaatt 420
gtacaacgga agctct 436

<210> 16966
<211> 438
<212> DNA
<213> Glycine max

<400> 16966

ttaatgttgt gactaacaag gtgcataaca gagaatggga tttggtaaag tttacacaca 60
acatatatgt atcttctatt ttaatttcag aaataacctt tgattgtgga gcagttatac 120
ttggctaatc aagagaaatt ccacaaagtg gctgacaaaa attactggaa agctattggg 180
gagatcattc ctcgagaggt tcccaacatt gagaagaaaa gaagcaaagt ggatcacgag 240
aataagccat caatcacagt cgtccaaggc ccatagcctg gctaaccacac agatctttct 300
aggatgaggc agatattggt gaagctgaaa catacaccac cagctcacat gattccccct 360
cctactgcac ctgctaaaga cgccatagat gggaacgatg gaaaagacgg aatagaaaca 420
gcattctaaag ccaatgga 438

<210> 16967
<211> 389
<212> DNA

<213> Glycine max

<400> 16967

agcttatgct tttctttata ttgtcacaca gatttcatat tcttaatggc tgctgttttt 60
tcagacaactt cctatttttt ttgatggcct tgttactgca tggggcgcta tcttaatttc 120
tgtgacatta attcttttgt ttggtgaggt gagaaagtgc tgctccttata tgattttaag 180
tataatacat tcatgtcaca gattaagtgc ttgtgttgat tgtttagagg ttggaacctg 240
gaacaaaaat ctggtggcac agcaccggtt ttgtttgggt cacgtttttt ccatttgtga 300
aagacatttt ttgttaatta gaatcaattc cagttgaagt gggaaccact agcttctcat 360
tcttctaatag ttatgtttgg caataaaaaa 389

<210> 16968

<211> 444

<212> DNA

<213> Glycine max

<400> 16968

tccccatctt cccagcacca accaccaaca ctccagaatc tgcaaagag gaatccggt 60
gcttcatcag tgcaagctcc acagcagccg agcttacaga aactgatcca gatgaaatgt 120
tagtctcggt tctaaccgcg tccccaccg atatcgctg cttgaacaaa ccactgattt 180
tcttatcaaa accaggcact cctgtccag ctttcacaac ctgcttcacc tgagcaagaa 240
tttgaccttc cccaagaaca agtgagtcaa gccctgacgc cacttcaaat agatgctgcg 300
cggcgtagcg gttatacagc aaaacttgggt gctcccgaag ctgaggtatt gaaatccact 360
cacctaaaca aaaaacacaa ccatgagttt tcttttccaa aaaaaacaa gaacttagca 420
tgggtaaatc acctatttcg tcca 444

<210> 16969

<211> 416

<212> DNA

<213> Glycine max

<400> 16969

tgtcaaatgg aaggatagga taccctatgc tttctggaat ttcaacccaa cagtgtctat 60
tattaggaga gaactctgca agtgcaacac cacagaaaaa catgattgga atgcaagaat 120

atatgacata gtaaataatat aatctaaaaa tttacttttg ttataggtta atgcattaat 180
 tatctcaaga ttaaattaac acattttttc tctctctctt ttcaacaatg gttgcgagag 240
 agagcaagta attttgagaa ctcaaaactt gaaaatgaat gtaccttttag gtaaagtttt 300
 gaagcatatt atatgattgt gattttttta aataattatt atagaagggg ttagtttact 360
 tttttgaatc tgtcacatat aaactttttt agattgtact tactaaattt tgaaac 416

<210> 16970
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 16970

agcttgacag gttcatgtgc aggtgcaggt gctgctgcta gtggaggcac ttcaatttgc 60
 ttgccagacc tcatggtgat ggcactcaca tttttcgaat ttttcacagt ctgtgaaggc 120
 aatttgtcag aatttttagga ctgagcttgg ttcaactgag tagccatctg ccccatattga 180
 tttatcagac tctgaatgga ggctcttgct tcttgctaaa attgcatatt ctggatgggt 240
 atttgectca ctagctcttc taaggaaggt tgccaagggg ccttagttgc ttgttgtctt 300
 tgttgttgtt gttgttgttg ctgcattgga ggaggaacat atggcttgct tggaccaaca 360
 ccattctgga aagcatggca tgctgttgtt gt 392

<210> 16971
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16971

ngaaggacat gcacaaagtg tgactatatg atgtggtaat atggtgtagc aagcaaatgc 60
 tcacctcccc ctctaaaatt taattggatt gagcttctcc caattcaatt aaatttattt 120
 tccaacacac acatcaaata ttaacttaat gcatatgaaa ttacaaaact acccctaata 180
 taaaaactag tctaggtgcc ccaaaatata agggctgaaa aatcatacat ttgtagggta 240
 ccctacctac gttatggagc cctaaataaa aggcccaaaa ataatagaac cttaattctaa 300
 tatgtactaa aataagtggg ctcacactta gcccatgggc ctaaaatcta tctaagggtt 360
 catgagaacc ctanggtctt ctcttgcac tctagcccaa tctacttggg gtcttctatc 420

caatgccctt gc

432

<210> 16972

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16972

ntgaggggaac cgcgcattnt tcataataga acactggtaa tgtgtctact atcattgtta 60

tcattttcttt ctccgtcttt gagggaaacca cttgggctgc cagatctctc cacctttggg 120

tgtattcttt gaaagattca tgcccccttt ttgcacatgt tctatagttg catcctatcc 180

ggagccatat cagaattgta ctaatactgc ctaacgaagg caaccattag gtcctttcaa 240

gaatggactc gggaagggtc caagttagtg taccaggtaa caactacgct agtaagactt 300

ttttggaaga aatgtatcag tagttcctca tcttttgctg atgcccccat cttctgacaa 360

tacatcttta gatgggtctt gcggcaagta gtcccccttt actctctggg aatcgattac 420

catattgttg tcatcgat 438

<210> 16973

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16973

tagcaaagaa aaagcaattg anaaagtga actctgtctt gtttatcgct tggaagttaa 60

tttttcaa attgatata aaagtcaatg atagtatcat taaggcattt ctcacgctgt 120

aaaagctcaa tatcgctctt ttgatacaa acagcatcag ggtccccctt tggatacgcc 180

tttttaa atg cagcagaatc atgtccact atctggctc ccaagttaat ttcattcttct 240

gagggattga agttgaagta gaaatcaaag aaaatgtag acttgatttt tttttttttt 300

tatgagggaa gaaagaaata aaatataagt aactactgtc taacataagt aactactgcac 360

ctaaagaatc ttgaatctag acatcttggt ataaaattac ttttaaataa gataatatga 420

atgctatttt ttt 433

<210> 16974
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16974

tatgctgcan atatttaca tagacctcct caacctcagc tgcaaaatca accacagtag 60
 aacaattatg acctctccag caacagatac aacctggat ggaggaatca ccctatcctc 120
 agatgggtcca gcccttagca acaacaacag cagcctgctc cttccttcca aaatgctgct 180
 ggcccaagca gaccatacat tcctccacta atccaacaac agcaacaacc ccagaaacag 240
 ccaacagttg aggccctcc acaaccttcc cttgaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagata 360
 ggaccattgg ctaccaatt gaatcaacaa caatacctga attctgacaa gctgccttct 420
 caagctgtcc aa 432

<210> 16975
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 16975

agcttctaga ttagtgtact aaacaaccgc ggctccggcc aagctatctt ggaaaaagtg 60
 tattaatagt ttctcatccc tagagtgcgc gcccatcttg cgacaatata tcttgagatg 120
 gttcttggga caagtcgtcc ctttatactt gttegaagtc gccaccttga attttggggg 180
 gataacaaca tctgatacca agcaaagatc cgcgaatgga tattcaccaa agccttcaac 240
 agccctcaat ctctcctcga ggagatcgag tttccatctt tcttcgatcg tcgggggtgg 300
 tccttctgtg gacaagatta ttggttgtgc tgtgaagttg ggatgatgca aagtgttgcg 360
 tgccggcccc tcgacgagga tcggtgggta 390

<210> 16976
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16976

tgaagganaa ctggatgcgt tggtaactt ggtaacctag ctggccttga atcagaaatc 60
 tgtacctgtc gcaaggggtt gtggtctgtg ctctctgtct gaccaccata tagacctttg 120
 cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgtctg caaatattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaga taçaaccctg gatggaggaa tcaccctaac ctçagatggc ccagccctca 300
 gcaacaacaa cagcagcctg ctcttccctt ccaaaatgct gctggcccaa gcagaccata 360
 cattctcca ccaatccaac aacaacaaca accccagaaa caaccaacag ttgaggcccc 420
 tccacaacct tcctcgaag aacttg 446

<210> 16977
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all' n locations
 <400> 16977

tcagcccaag cctcttgaaa tgcttgcatt gcatttcaat gtatatacag atgcttctat 60
 tacagtacca acttggcaac ttccacaaaa aataataagt ataataaaaa aatacaatac 120
 caagtaccaa cttaagataa caatttaatt agaattatct actgtcattc aattacaagt 180
 tgctatgtgt agtaaattta tcattttttt attcaaattt atcaattttt atcataatta 240
 ctataaaagt tatatttatg atgattttcta attgattgat attataaatt ttttaacact 300
 taaatgtgtg tgcatataat gtattgaatt taaaaacata atttatttgc atatttaata 360
 gcttcacaat taaaatacgt tntctatacg ttaaaaagat actatattaa atactagggtg 420
 gtgctgagat cactg 435

<210> 16978
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 16978

agcttattct ccttcaactg cacaaggctc ttaatatctg aagagtatcc ttgtggaacc 60
 ttcacccgac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120

gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtataccc 180
 atatcagcta gatcttgacg agtattcaag ccataccttca tcttgccttg aatgttaagg 240
 agcgtcccaa tcacactgtc acaaacattt ctccacatgc atgacatcaa tacaatgtct 300
 aacgtcaaga tcacaccagt acggaagatc aaagataatt gacctcttct tccatatgca 360
 actctgacta ttatccttct tttgggtc 388

<210> 16979
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16979

nttgttgaga aacaaagtgg caaacttata aaagtcttga taagtgacaa gggaaaagaa 60
 gtgagttttg agaggcagtt gactgttggc tatacacctc aacaaaatgg tgtatctgaa 120
 aggaacaatc aaaccgtgat ggagaaagga ataccaaaag aattatggcc tgaggctatt 180
 aatacaaccg tgtacttgtt gaataggtgc ccaacaaaag cagtatgaaa tatgacacca 240
 tttgaagcat gaaatggaag aaagccttta gtgaaccaca taaaattttt tggatgtgtt 300
 ttgctacgct caagttccta aagaaaagat tacaagctt gaagaagcaa gtgagagatg 360
 catctttatt ggctatagtt ccgtgtcaaa gggctataga ctctacaact tgaagaccaa 420
 gaaagtgatc attagccga 439

<210> 16980
 <211> 415
 <212> DNA
 <213> Glycine max
 <400> 16980

gatctggttg aaatatcttg ctagaagggtg tttctattat gcttgtattc caagcattcc 60
 tgacatactt cacttggcac ttgaatgtgt ggcaaccagt gcaccatatt atccctatgt 120
 acgaagtgtg gatcctgaaa ttgagatgcc caaacttata atgccaaagc cacttacttt 180
 tgctcactgt tgtggctaga cattcatgtc ccataccatt aattcctacc ttaaaggatg 240
 tgttctttga cataagatcc tttaaaacta gtcttttctt gttgtcatat accattagca 300
 cattatcctc cattttcatc acaaatcctt tctccaggaa ttgaccaagg cttaagagat 360

tattcttcat ttctggcaca aaaagcacac cagatatgaa agattgttta ccac 415

<210> 16981
<211> 375
<212> DNA
<213> Glycine max

<400> 16981

tggtgcaagc ttgttcaacc tatcaagagt cacattctaa caacaattgt tccagcttgg 60

agaattcatc aatggatgga tacatggagc tataagaaca attgataact gtttaatatg 120

agttattttg ataataagaa tatattgaaa atatttttaa aaatatttat ttaacagtta 180

ttcttggtt aaatattaag atttgatata tttcttattt atgacgttgc catatgaaaa 240

ggagagatta aaagagataa agatcgaaaa aatatccaag atatcaggaa atcattacta 300

gctaaacaaa tcttaaagat atcacaaata tcaataatga agatttttaa catcacgccc 360

aaagtactac aacaa 375

<210> 16982
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 16982

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tgtcttctc taaatcccca tgcaagaatg cagttntaac atctaactgc tccaagtga 120

gattctctgc agctactatg ctcaagaata ctctgatgg agtcatctt acaactggag 180

agaagatctc tgtgaaatca attccttggt tctgctgaaa cctntcacc acaagtctcg 240

ccttgatatc tcttctaccg tcagattctt cctttagcct atagaccac ctattctgta 300

atgccttctt tcttctggc aatntagtta aagaccacgt cttattctt tgaagggatg 360

tcattctac tttcatcgct agtcccaact caatagtgtc a 401

<210> 16983
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16983

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tcacctcccc ctctaaaatt taattggatt gggattctcc caattcaatt aaatctatct 120
tccaacacac acatganata ttcactcaat tcatgtgaaa ttaaaaaact acccctaata 180
caaaaaactag tctaggtgcc ctaaaatata agggctaaaa aaatcctaca ttcttagggt 240
accttctcta tattatggag ccctaaatac aaggccgaan aataatgaaa ccttaattcta 300
atatgtacaa agataagtgg gtcatactt agcccatggg cccgaaatct accctaaggc 360
tcgtgagaac cct 373

<210> 16984
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16984

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tcgagacgct caaaattgaa tgttgaacct ctgatgcaat tcaaaggaca ataacttttt 120
actcggatgt ctgattgagt cccgtaatat atcgagacgc tcgaaaatga atgttgaacc 180
tatgagccaa ttcaaacgac cataactttt tactccgatg tctgattgag tcccataata 240
tatcgagagg ctcgaaattg aatggtcaac ctcttagcca attcaaacga caataacttg 300
ttactcggat gtatgattga gtcccgtaac atatcgagac gc 342

<210> 16985
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16985

tagcccatca tcaatattga tttcaagaaa caaanaagca agtatatata tcagtgaact 60
gagccagacc aaggaaaaat acatcaaaga aaataaataa tctagtatag ctaattttat 120
aatcagataa agcatctaag acctgctgcc atgtggtatc aacaagaggc agccgccgag 180
cattgccagc atcaaaatcc agtacaccat aatccctcaa ccgaatctac acagcaataa 240

ctaaaataag aagtcttttg agaattaaat gcatggcatt atctataaga cacattgttc 300
 aaaatgagac aaacccaaag gaaggcacgg attctttgca aattcccaac accaacacca 360
 agagcagcct accattagat aaaaaagcaa gcagaaatta agtgttgata acaaaaacaa 420
 attcatgctt gctctcttat atngaatatg aaac 454

<210> 16986
 <211> 350
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16986

agcttctact gtgaagctat cttcgtatcg agcatggcca aatatgcatg acagtcggtt 60
 tgcgctttac aagtggccat tgcgggttcc caaagatgac caagaatatg ctggtttatg 120
 gggaagaact tttggttggc ctcttgaaa gccttctgaa gacaagcctg gaaaggcttt 180
 attctttctt ctgctctctt atgaggagtt ccagggacaa cagcttctca ttgcaaccaa 240
 aattttggaa ggcacacact atgtgttaca tcctaacggt tcancaattg ttacagcaaa 300
 tatcaatgat ctttcaccc aacccttttc ctgggacact gatgcagact 350

<210> 16987
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16987

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 ttcacccgat gaagacacta acaaaaattt atcttctcct ttntggacaa agtatgacaa 120
 gttgggggca agtaaatttt ctcccatca gaccttggat gcaactgtga tcatatcccc 180
 atctcagcta gatcttgatg ggtattcaag ccaccttcg tcttgcttg aatgttaaag 240
 agagtcccaa tcacattgtc acatacattg ttctccacat gcataacatt aatacaatgt 300
 ctaacgtcta gatcaaacca gtacggaaga tacaagagaa tggacctctt ctcccatatg 360
 caagtcttaa ctttatcctt tctttgggtc tttccaaata cagtat 406

<210> 16988
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 16988

ggtttgcaag cttgtttcttc attctctacg ccgacgccac tggatttcaa atgcataatct 60
 gcaatatctg cctgcttcca cactttaact aatgtgtact ttgataattg gattttttgca 120
 ttgcttggtt tttccctttc attgcaggta tatccagagc acatgtgccca cctctgggga 180
 aggactatat gaagggctgg actggctctc caacaatata gctaacaagg tatgccttga 240
 aaatctgcat cttttgtgtt cggtgcttga cctgtgatac tctgatttct ggttactttt 300
 ctggatcacg cctaaggac attttgtgga atgccgctat cttcttgctt gctttac 357

<210> 16989
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16989

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 ggtgttatat tataataact ggtcattaat ctaaaatata tcagcccttc gtccactaga 120
 ccagcatggc tacaagcact tagaactgcc ataaacacca tcttatctgg tttaatatga 180
 tgagaatcat gaaacaggcc aaatacagtc taaaggccca agtggagaag gacgaaggcc 240
 caagtggaga aggacaaagc ccccgagtgg agaattgatga aggcccaagt ggagaaggat 300
 gaaggcccag aggcagagac actatcaaga ctattaattg ttgctgaagg cccaaactaa 360
 tttgaaggcc caagttaaata aagtttctag ttataattta tttttattgg aattttggcc 420
 canactgtct agaaagccca tgtctatattt tatct 455

<210> 16990
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 16990

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tntcagaaca acaaagtgtt tatcctctca aagagcaaat tcattttatc ctcttaagaa 120
 ttccttggcc aattcaattg caattcatta aggaattatt tgagtgtca atctgtaaaa 180
 tccatctctt tctagagaga tttgttcttc ttcttcttct cattttctaa gggattaaga 240
 gactgtgagt ctcttgttgt aaaggatctc taaacacaaa ggaaggattg tccttgtgtg 300
 tttagaactt gtaaaaggaa tttacaagat agtggaactc tcaagcgggt tgcttgnnga 360
 ctggacgtat gcacaagggt gtggtcgaac cagtataaaa ctgagtttgc attctctctt 420
 cccttaatc 429

<210> 16991
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16991

tctagaattg catgtaaaaa atatatggca taatttgctg taaaggaagc tttccactca 60
 agagtgtgag tacatccatt ccatgttctt aggatcaaca aaatgcttta atgtgctaga 120
 gctgatagtg tttagtctgg aatcagaggt gcatctagaa agtcacaggg aacatgtgct 180
 agagtcacca ttggtcaggt tctttntctt atgtgttgta aggagaacaa caatcatcat 240
 gcacaaaagg ctctttgtgg tgctaagttt aagttcccta gtcgtcagaa gatcatagtt 300
 agctggtgtc agaccctaatt ttcatatggg ggcaatcatt tgcaaacatt tggattcttt 360
 ctagccgaat tgagctgctt aacacttgat tttgcaatca tttcaccttn gaagtcatga 420
 ttttgcacac tttga 435

<210> 16992
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 16992

agctntacta atagaatcat cttgatatga ctgttttggg agtcctctta cgaggctatg 60
 cttttgaagc tttgagatta acctccagct agcatggtca aacttcttat tccatacnca 120
 gtaatgctct ttgactaaaa gtaagcatga caccttttga ttggatagat caccaagttt 180

aatcttatag tgatttcctt gtctcttagt agacaagagt aaagagttgt cctttgtttg 240
gatgatacac atatccttgt taaagttaaa ggtgacattg tatccactat catacaattg 300
acttatgctc aacaaattat gcttcaatcc ttttaacaagt aaaacattat tgatagaagg 360
ataataagga atacaaacct tacctacacc tatta 395

<210> 16993
<211> 462
<212> DNA
<213> Glycine max

<400> 16993

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aataactatg acctctccag caacaggtag aatcccggat ggaggaatca tcccaacctt 120
atttggtcga atccttcaca acaacagcaa caacaacaac cttactttca aaatgctgtt 180
ggcccaagca gaccatacgt tcctccacca atctagcaac aacagcaaca acagaaacaa 240
caaacagtta aggccctcc gcaaccttcg cttgaagaac ttgtgaggca aatgactatg 300
caaaacatgc agtttcagca agatatcaaa gcctccattc agagcttaac taatcagatg 360
ggacagttgg ctacacagtt aaatcaacaa cagtcccaga attctgatag attaccttct 420
caatctgtcc agaatcacia aaatgtgagt gccattacat tg 462

<210> 16994
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16994

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atggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcactatt aaaggacctc attgaagctc anagatccaa cctccataga aacccacaa 180
gcaagcttcc atcataacca ctctatttcc cctaccaggg atatccaact tggctactgc 240
actccccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300
ctcatctcaa tgtcattatc atcatcaaca tgatcccatc tcaatgtcat tctcaacatc 360

aacatcatct catctcaatg acattatcaa catcaacatc atctgatttc aatgacg 417

<210> 16995

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16995

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agagagcaag atatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120

ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180

cccatagcaa caaggggggtt gaagagtatt tcaaggaaat ggatgtgctc atgattcacg 240

ctaattattga agaagatgat gaggtaacta tggctcgcat tcttaatggc ttgactaatg 300

atatccatga tattgttgag ctgcangagt ttgttgaaat ggatgatttg cttcacaaga 360

tgtecgatcc actagcataa tataacgag 389

<210> 16996

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 16996

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caagttatga ccatttgaat ntctcgagag ctcccgattt tcaatnttga gcgtctctat 120

atgtgatgtg cctaaatcgg acatccgagt taaaagttat gtccatttga atttctcgag 180

agcttccgtt gttcaatttc gagcgtctct atatgtgatg cgcctaaatc ggacatccaa 240

gttaaaagtt atgaccattt gaatttctcg agagcttccg ttgttcaatt tcgagcgtct 300

cgatatatta tgcgcctgaa tcggacctcc gattgaaaag ttatgagcat ttgagttgct 360

caagagcctt catatggtca attctagcgt ctcgatatat tatgcgcctg aatcggacc 419

<210> 16997

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 16997

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gcaaaattct ttttgcggt ttttagatgac gagaggtcag agcctccata aagcgacaca 120
caatctccca ccgtattata gaatatcggg ccttggtattg gttagatacc ttaaactccc 180
cacaagactc ttgaagatca tggaggtctac cttctctcct tcatcagact ttgataactt 240
caagccacct tccatagggtg tgttcacggg attgcactca agcatattaa atgtcttcaa 300
cacttcttgt gtgtacct 318

<210> 16998
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16998

tgcagagctc aataattgat tggatagaga atcaaacttt tatttatctg ttagatgaca 60
ttctgtttac tcatgatcaa attaatTTaa ttgttgaaat attttataat ttacaacaat 120
aagtatctta acattttcag acaccaaatt tgatattata tattaagggtt agttcaaaat 180
tgtagaaact tcagcaaaat tttgaattaa tattctccca tttcatgttt atccacatag 240
tttctaacta ataataagct taataacata tgcataaatg ttgaacaatt aaaatgctaa 300
aaataacatg atttatgttt ttaatatcaa tggctnggag ttcttgattt ctaacaacga 360
atagagaata gcactacagc aagcacactg aaggaagagt attcataagg tgcaacatca 420
gtataaaatg ggatagaagt gataaaccac catca 455

<210> 16999
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 16999

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cgaggattaa gagggttgca gagcgcgctg atgagcgagc gcgtaagatg aagaagcatc 120
atggcgttaa gttcagttgg attttcaata aagaattgct tttgtgaaat ttcagttaag 180

acttaagaga taagagatag aggtcaacgt gagtcaacag gtttttggct ttgtgactat 240
 tttgagtctt gtttgtacgt ggcattntga gtacgaataa tgaacaatnt aacatggatt 300
 gcgtgtaatg gacattgttg gatccatggg tgttgttctg gtggatacaa aaccagtagg 360
 aactttttgt tgaacggt 378

<210> 17000
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17000

taagctcctt caactgcaca aggtctcttaa tatcttaaga gtatccttgc tgaaccttca 60
 cccgacgaag acaactgacan aaacttatct tctccttctt ggacaaagta tggcatgctg 120
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgacgt ataccatata 180
 cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240
 tcccaatcac actgtcacia acatTTTTTt ccacatgcat aacatcaata caatgtctaa 300
 cgtcaatatc acaccagtac ggaagatcaa agaaaatgga tcttttcttc atatgcaact 360
 ctgactttta tccttctttt gggctcttccc aaatatagta ttcattgtgtt gaacccgctc 420
 atataccttc tcaccagtca atg 443

<210> 17001
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17001

agcttttaca cctttaatca agcttagttc aactgcaacc atcagaacga aaccctattc 60
 tattaccggg attatcatat acaatctcaa aggttttttg ttggacgttc ccaaataatgg 120
 ttatttgact atcatcttta ttgtgaataa atgccaaaca agactgttta tcatcgaact 180
 catagagtac ccctggcggg tgtaagtcca ctgtgacgcc aggaaagacg aatgacattt 240
 caggaatngg ataattgatat ccagtaagat cataacacgt gtcaaataca ttgtgcgagg 300
 nggcagtggg atagttggac aaacgctgct gaaatactga acgga 345

<210> 17002
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17002

agcttcttat ccaaagctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
 atggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
 aatcactatt aaaggacctc attgaagctc anagatccaa cttccataga aacccacaa 180
 gcaagctttc atcataacca ctctatttcc cctaccagag atatccaact tggtcactgc 240
 acttcccatg tacatacaca acatacatca tcacaatgac attatcaaca tcaacaacat 300
 ctcactctcaa tgtcattatc atcatcaaca tgatcccatc tcaatgtcat tctcaacatc 360
 aacatcatct catctcaatg acattatcaa catcaacat 399

<210> 17003
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17003

tctanactnt gtacaagaat gaagctctga taccacttgt tagtctagtg gcctcagata 60
 tcttaagaag ggggggttga attaagatat tccaaacttt tctcctaatt aaaaatctat 120
 cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaatt attaattcaa 180
 atgaagcaac ttgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240
 aaaatgcaaa ctcagtttta tactgggttcg gccacaccct tgtgcctacg tccagtcctc 300
 aagcaacccg cttgagagtt ccactaactt gtaaattcct tttacaagtt ctaaacacac 360
 aangacaacc cttcctttgt gtttagagat tctntacaac aagagactca cagtctctta 420
 atcccttaga gaatg 435

<210> 17004
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 17004

agctttttaca agctggaatc attcatccta tctctgacag ccaatgggtg agtcctgttc 60
aagtagtccc gaagaaaacc agcctaaccg tgataaaaaa ttacaatgag gagttgattc 120
ctactcgggt gcagaacagt tggagagtct gcatcgacta tatgaggctg aaccaaggta 180
ccaactataa cgcttggcaa gtaaatctca ctactatttc cttgatggct tatctgggta 240
tatgcaaate actattgttc atgaggataa agaaaatacc acattcacct gcccttcgg 300
cactctttcc tatatgatga tgcctttcag cctgtgcaat gcccttatta ccttctaact 360
gtgcatga 368

<210> 17005

<211> 350

<212> DNA

<213> Glycine max

<400> 17005

agctttcttca tcagaccact tccagtgtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgcta tgttgctgtg gatgatttct 120
ccagatttac ctgggtcaac tttatcagag aaaaatcaga cacctttgaa gtattcaagg 180
agttgagtct aagacttcta agagaaaaag actgtgtcct caagagaatc aggagtgacc 240
atggcagata gtttgaaaac agcaggttta ctgaattctg cacatctgaa ggcatcactc 300
atgagttctc tgcagccatt acaccacaac agaatggcat agttgagagg 350

<210> 17006

<211> 387

<212> DNA

<213> Glycine max

<400> 17006

tgttgacat agttatcaaa gtgcgtgatg agtgtttcat attgagcttg agttctgttg 60
tagcctgcat tgccaatgtg atctgatttc ttcccgatt gattgtgaac aacgagtaat 120
gcagatgcat ggccggcgag ttcgggtcaaa tggagcacgt aaatgcatat tggagagttc 180
tttgttgggt tagaggcgtc aaggagggtta atcattgggtg gcacatttct agggctgtgg 240
atgcacacca tgactctgaa ctctgtgtct gtttgagaca tttgaatatt tcttcttttg 300

taagggatga tcccccttga tgttttagtat atagctgata tcccatgtac agttatacca 360
tcattagaat gttataatca ccattga 387

<210> 17007
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17007

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atggtcattg accaatccct attttttgac ttaacaaaat tgcctagtga aggtgtacct 120
tttgaggggtg cactgattga tgaatggaaa tttgatttct ctatgcatga tgtatgccaa 180
ttggtttgca ccaaccaagc ggatatgacc ggaaggcttc ttgccggttc attggctttt 240
gaaagtcgca tcctccatta tcttatagtt cgcattttgc ttcctagatc ttcaaacctt 300
gcctagggtt ctgaagaaga cctcattgtc atgtgggcct ttcataaagg tctacaaatt 360
gattgggcac atcttgttag atatcgcatg cataaggcat cgcgattgaa tgccccatta 420
ccttatcctc atct 434

<210> 17008
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17008

tcaagaaaaa gatggcctca gcaaattcct tatttccaga ttggtattct atcaatagac 60
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
aggcaataga tctaaatata tgggaagcca ttgaaatagg gccttatata cccaccacag 180
tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240
gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanaa gccaaaaaca 300
taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcata 360
aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420
ggataaatgc actaactcat gagtatgaat tatttta 456

<210> 17009
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17009

agcttcctcg tggcttcttt gagaagcttt ctcaagaggc ttctttgaga agctagatcc 60
 ttatctatcc acacccctct attaactaaa ttaacttcct taaaaataat tacggatgaa 120
 aataacgcaa caaatattca aacatcaaac ataattacta atagtatata gatatatata 180
 tatcaggggtg ttacaactct cccacccttt tagaaatttc gtccctcgaaa tttaccttac 240
 tcaaacaagg atgggtgagc ttctcacatc tgactntcta attcccatgt ggcattctct 300
 cctgatgcac ctccccagat caccttgacc aacagaatct cttccctct taagtgtttt 360
 ggttgcctat cctcgatcct canatgcaat gtttcatatg tc 402

<210> 17010
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17010

agcttttacta atggatagta agaaccataa atacctagcc ccaccagtag gttacaaaat 60
 atttataaag tataaaccgt acctatttaa agcctatgaa gagagagagt cacacagttt 120
 tcccatcaca aggtcatgtt aaaactcaac atgaaaagat acattcccta agttgatttg 180
 tgctctcttt taaactgact actaaattga gagggacttt taaattactg aactattctt 240
 caattaacat taataaagga tccttggttn ctttgtagca gggctctctt gctgctccgg 300
 ttcttcaaca cctgacanaa gcagatttaa gcaagatgta ctttg 345

<210> 17011
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17011

agcttctaag cataatattg tttgacgaca tcagagttca cgggtgaagg tagctcttcg 60
ccatccatgt tggtaagcac cagggctcct ccggagaaag ccctcttcac aacaaaaggc 120
ccttcgtagt tcggggccca tttccctcgg tggtccttga cagcatggga cattttcttt 180
agcacaaggt ctccctcatg gaacttgccg aagegtactt tcttgtcgaa cgcgctcttc 240
attctttgct ggtacaagcg cccatgactc atggccgtta agcgcttacc ctcaatgagg 300
gtgagctgat cgtagcgtgt ttgagccac tctgattcct ttaatccgga ttctgccaag 360
atccttaatg acgggacttc tacctcanat ggtaacaccg cc 402

<210> 17012
<211> 390
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17012

tataatatat cgatacgtc gaaattaaac atcgattact ctcagganat tcaaatagtc 60
ataacttttc acacggatgt ccggttcggg cgcataatat gtcgagaagc tcgaaattga 120
acaacggaag atcttgagaa attcaaatag tcataacttt tcacacggat gtccgattca 180
agcttataat atatcgatac gtcgaaatt aaacatcgga aactctcgg aaattcaaatt 240
ggtcataact tttcacacgg atatccgatt cgggctcata atatgtccag aagctcgaaa 300
ttgaactacg gaagttcttg agaaattcaa gtgggtcttaa cttttcacac ggatgtccga 360
ttcaggcaca tcacatatcg agacgtcaa 390

<210> 17013
<211> 366
<212> DNA
<213> Glycine max
<400> 17013

agcttgtgag ttacaaagtc ttgaataagc aattatgtga gtatttagta ttcttgaata 60
agcaaattat gtgagtggtc actctattct aatataaata ggggatcata ctcttgtatt 120
tgggtgtgcca aatgaaataa aatctttttc ttcttccaac acagtgggtat cagagcttga 180
gttctagagt gttgagaaag aaacactttg tgagttgaga gagacatact ctgtgagttg 240
agagatggca agcaatggct taagtatgtt tcaattccct cgtcttacca aagagaatta 300

tgataattgg tgcgctcgca tgacagcctt gttaggttct caagatgcat gggagattgt 360
agagaa 366

<210> 17014
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17014

atactaagct tcaactcgatg tccgattcag gcgcatacata tatcgagatt ctcgatattg 60
aacaacggaa gctctcgaga aattgaaatg atcataactt ttcactcaga tttacgattc 120
agacgcataa tatatcgaga cgctcgaaat tgaactacgg aagctctcga gaaattttaa 180
tgatgataaa ttctcactcg gatgtccaat tgaggaacat cagatatcgt gacgctcgaa 240
attaaacaac ggaacctctc acgaaattca aatggtcata acttttcaca cggagatccg 300
attcatgcac atcacatatg gagacgtccg aaattgaacc acggaagatc tcgagaaatt 360
caaatgggca taactnttca ctccgatgtn cgattcacgc gcatgatata tcgagacgct 420
caaaattgaa caacggaagc tctcgataaa ttaaatt 456

<210> 17015
<211> 338
<212> DNA
<213> Glycine max

<400> 17015

agctttcttca ttcaattttg accgtcttga tatgtgaagg gactcaatca gacatccgag 60
aaaaaaacta ttgtcgtttg agttggctta aaaccttcac attcaatttc gagcgtctcg 120
atatgttaag ggactcaatc agacatccga gtaaaagtta tgggcctttg aattggctca 180
gagcttcaac attcaatata gagcgtctcg atatggtacg ggactcaatc acacatccga 240
gaacaaagtt atcgctcgtt gagttggctc agagcttcaa cattcaattt cgagcgtctc 300
cgtatgttac cggacctcat cagacatccc gagaaaaa 338

<210> 17016
<211> 432
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17016

ntgagccaac tcanacgata ataaactntnt actcggatgt ctgattgagt cccgtaacat 60
atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac aataactttt 120
ttcacggatg tctgattgag tcccgttaaca tattgagacg ctcgaaattg aatgttgaac 180
ctctgagcaa attcaaatga caataacttt ttactcggat gtctgattga gtcccgtaac 240
atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aatacaaacg accataactt 300
tttactcgga tgtctgattg agtcccgtaa catatcgaga cgctcgaaat tgaatgttga 360
agctctgagc caatacaaac gaccataact ntttactcgg atgtctgatt gagtcccgtg 420
acatatcgag ac 432

<210> 17017

<211> 435

<212> DNA

<213> Glycine max

<400> 17017

tgtttcagtc tcaaataaac caatgaagta atattatggt tcaatatcat ggaagtaagc 60
acattcggtc caccatgaaa cttaattga tttagagcaa ataactcatg ataatatcac 120
ccccacacaa atgaatcacg tacgttttct acaagctcca atgccaggtc ctttgcctgat 180
tcaccatcaa gataatacac tgacccaatt aaattgctaa acttatcgac accttccagg 240
acaagccgaa cctacatacc attaggatta gaaaattttc agaattgcaa aatcaatata 300
acttatagaa acacattact cacttctcga ttcaatacac gcatctcagt gaaaaattta 360
gcatcatgtg caaaaggatc ggctgcagtt tcagcaacag atgttgaaac tgcaagcctt 420
tgtgcagatg taagt 435

<210> 17018

<211> 411

<212> DNA

<213> Glycine max

<400> 17018

agcttattac ttttatttcg agcgtctaga tatattacag gactcaatca aacatccgag 60

taaaatgtta ctggcggttta aatttgetta actctccagc tttaaatttc gagcgtctcg 120
 atatatgacg ggactatatc agacatccga gtaaaaagtt attgtcattt gaatttgctt 180
 agagattcaa cattcatctt cgagtgtctc gttatattac gggactcaat tatacattcg 240
 agtacaaagt tattggccgt tgaattttct cagagcttca acaatcaatt tcgagcgtct 300
 cgatatatta cgggactcaa tcaggcatcc gagtaaaaag ttattgtcgt ttgaattggc 360
 tcagagcttc aacattcaat ttcgagcgtc tcgctatatt acgggactat a 411

<210> 17019
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17019

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 cgaatatatc gagacgctcg aaattgaatg ttgaagctct gagccaattc acacgacaat 120
 aactttttac tcggatgatt gattgagtcc cgtaataata caagacgctc aaaattgaat 180
 gttgaagcta tgagccaatt caaatgacaa taacttttta ctcgatgtc tgaatgagtc 240
 ccgaaatata tcgagacgct cgaacgtgaa tgtgaacctc tgagccattt aaacgacaat 300
 aactttttac tcggatgtct gattgagtcc cgtaatatat cgagacgctc gaaattgaat 360
 gttcgaagct t 371

<210> 17020
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17020

tctttatatt caattacgag cgtctccata tattacggga ctcaatcgga catccgaatt 60
 aaaagttatt gtcgttagat tttctcaga gcttccgatt tcaattacga gcgtttcgtc 120
 atcctacggg acataatcgg acatccgagt caaaagttat tggtcgttga atttgctcag 180
 agcttcagtt ttcaattacg agcgtctcgg taaattacga gactcattca gacatccgaa 240
 ttaaaagtta ttgtcatttg actnttcata gagcttccgt tttcaatttc gagcatctcg 300

atatattaca gggctccatc ggacatccaa gttaaaagtt attcgtcggtt gattttttctc 360
agagcttccg ttntcaatta cgagcgtctc gaatcctact ggaccaatcg gacat 415

<210> 17021
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17021

ttggagtttc caagtgccaa ttcgncttct tctttaancc attcttcttc tggcttcaat 60
tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
gctttccaag ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180
tcatagttgc ttccatcgag aattgggtggc ctgttccactg gtccgccttc tttctccatg 240
ttcatcaaac gtatctccta gatctcactc tgtgatttcg agtgttggct ctgataccaa 300
ttgaaattct gataccaggg gacagatgtc gtacaggatg tcacgacatc acgcttcaga 360
acatgcagat tatatgtgtc cgtatgaaca gattaaacca agtaataaca caagagaatt 420
g 421

<210> 17022
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17022

ttcttagtct tagaggggat ggaccttttc aagttttgga gaggatcaat aacaatgcct 60
ataggttgga cctcccagaa gagaatggag tcagcaccac ttttaacatt tctgatttaa 120
ttccttttgc aagtggagct tatattgagg aggaggaact aacaaatntg aggtcaaadc 180
ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa tggaccagtc actagaatca 240
tgagcaagag gctccaagaa gattgngcta gaattgctga agaaggccct anggttctca 300
tgaacctcan ggtagatttc tgagcccatg ggccaaagtt gggccaatt atctttgtac 360
atattagact angatgtcat tatatttggc cttggattta 400

<210> 17023
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 17023

tccatcaata ttaaagactg cttttaggac acgttatggt ttctatgagt atctagtcac 60
 gccctttggt gtgactaatg ctccagggtg gtttatagaa tacatgaata gagtctttca 120
 cccttacctt gatagttttg tggtagtatt cataaatgat attttggat actccaagac 180
 tagagaagaa catgaagaac acttgaggat tgtgttgcac accctttggg actgacaact 240
 atatgctaag ctatcccggt tgattttggt tagagaaagt tagtttccta gggcatgtga 300
 tatctcaagg gggcataact gtagatccct ctaagataga agtcgctctt gagtgggag 359

<210> 17024
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17024

agctttttta ttgttagtta gaaccatana tacctagcct caccagtagg ttacaaaata 60
 ttataaaagt ataaaccgta cctattttaa gcctatgaag agagagagtc acacagtttt 120
 cccatcacia ggtcatgtta aaactcaaca tgaaaagata cattccctaa gttgatttgt 180
 gctctctttt aaactgacta ctaaattgag agggactttt aaattactga actattcttc 240
 aattaacatt aataaaggat ccttgggttc tttgtagcag ggtcctcttg ctgctccggt 300
 tcttcaacac ctgacaaaag cagatttaag caagatgtac tnttgggggt tccaagtgtt 360
 ggacatcaat ggtgtgcagt gctttctcac acggac 396

<210> 17025
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17025

tttcttctct cgtatgaaat gaanatcaat ctctatgtgc tttagtccttt catgacaaac 60
 tgggtttgag gcaatatgaa gagcatcctg attatcacia tacaacttca ttggcaactc 120

ttcacaaaac ctcaattcct gcagaaacta tttaatccac atgagctcac aagtaaccat 180
agccatagat cgatattcag cttctgcaact ggaccgagcg acaactgtct gtttcttgtt 240
tttccaagaa ataagatttc ctccaatgaa gacacaatag cctaattgtag accttctatc 300
catgggacaa ccatcccaat cagcatcaca atatcccgat agttgtgtat tacccttgtc 360
ttcatacaat aaccctagac caggagcttt ttaagatata tcagatacgc atgacagcat 420
tccaat 426

<210> 17026
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17026

tgcnttttga tcnngngaga acccacatgg gatcaaata caaagcatat cagtctgttt 60
atcaggaacc tgatgaagat gagattgtgg gtgtttccct ctcacggtca cttctaagtg 120
tagctgcttc agctttgatg accaatataa cagacttang ccctcttgtc ttgccctatt 180
ccgagcagct gcgctatgga tggtcagtga tttccaggaa aatgtgggca aggcggaaca 240
aggaaatgta tgttccanat ttcattgaagg ctttngagca tttctgcata catgctgggtg 300
gtaagtcagt cgtagatgcc atagaggaga gtctgaagct gcacaagaaa gacggtgaag 360
cctcaaggat ggcattatac agaattggca atacttcata ttcttctgt 409

<210> 17027
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17027

ttctttttat tttacatgga ttatcaatga tcttttaata tatatctgta ttcccttata 60
aatacattat nttggagtaa aatgtcaagt tttacatact tgacataaca gattgtcatt 120
attctagtca gctatcaatg atctattata ttaatgcagc tcacaacaga ttcccttgtt 180
tctttaatac aagcatataa ttctaagaca gatagtttgg ttaatttacg tcctgctcag 240
tcagtggctc gggatgccat ggtgccttcc aaaaagagga catgtgcagg tcgtccgaaa 300

ccctcatctg ttgagaagct caccagagac ctgtgcaacta ttcttcatga acaacagtct 360
 ttatttt 366

<210> 17028

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17028

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 taaaaagtta ttgtagttag aatttgctca gggcttcggg attccatttc gagcgtctcg 120
 atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgttggtt gaatttgctc 180
 agagcttcgg tattccattt cgagcatctc gatatattac gggactcaat cagacatcgg 240
 agtaaaaagt tattgtagtt tcaatttgct cagggttcg gtattccatt tcgagcgtct 300
 cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360
 tcagagcttc tacattcaat ttogagcttt tcgatatatt tacgggactc atcagacatt 420
 cgagta 426

<210> 17029

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17029

ttgagaaaat tcaaacgaca atatctttnt actcggatgt ttgattgagt cccgtaatat 60
 atcgagacgc tcgaaattga ataccgaagc gctgagcaaa ttcaaacaac aataactttt 120
 tactcggatg tctgattgag tcccgtataa tatcgaaaag ctgcaatgtg aatgtagaag 180
 ctgagagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
 ataccgagat gtcgaaatgg aataccgaag ctctgagcaa attcaaaca taataacttt 300
 ttactcggat gtccgattga gtcccgtaat atatcggaac gcttgaaatn gaatgttgaa 360
 gctctgagca aattcaaacg acaataaact ttactcggga tgtcttgatg agtcccgtaa 420
 tatatcg 427

<210> 17030
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 17030

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actaagctta caacattctc gtgcgttatc tccctgagta actgctgtat caaatgatat 60
tcactcaaaa ccaatccaaa ccgccaaacc attaaataat ttttttttta taaaaaaaaag 120
cctcctctgg ctcaagcctc ttcaagggtt ccaaatacta gaaactacag agaactaaca 180
aaagaaaagg aaaatagata aatgaaaaaa aatggcaatt tcttcagaaa ctcgaaatta 240
aaaacaatct aagcgaattc gtttcgaatt tcaaaattac aacttcccta ggtgtaatta 300
agcaagcaga gaaaggaata ccatgatttc acgtatggcg gtgggagaga caccatcgcc 360
atccttggat tggcttgaat ttttatggc gaatggattt ccgcgattgg tggaagactt 420
gatgcgagc 429

```

<210> 17031
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 17031

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tagcaaatgg acctgggtat tgctcagttt cattatatct tccgtaatac tcatcacctc 60
tatcatatct aataattttt atatttatgt ctaattgccc ttttacttca ttgtagtaaa 120
tttctaaggc atccattgcc taagaaatct cgggcagtaa gtagacataa ctgtaacgtg 180
aataatcatc aataatggtg ataaagtatc attcctttcc gaaagaacta acatcaaaaag 240
gtccacaaat tcaatatcac aatttcaaga agctgagtgc ttcttgtagc tcttttcttt 300
gtatgttttg cttgttttcc ctttaatacaa cccacataaa tatttagatc cgtaaaatct 360
agataaggaa gaatttcatt ctttattaat atttccatcc tttctctaga aatgtgacct 420
aaacgtttat gccaca 436

```

<210> 17032
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 17032

agctttttcca aagaagatgg tgtcatccgc aaactggaga atattcactg cgaccttggt 60
cttccccacc ataaagctgt gaaataagtt tcttgacact gcttccctca tcaatcctgt 120
taacccttca gcaaccaaga caaataataa aggggccaaag ggatccccctt gtctcaatcc 180
tctttgaggc tttaattcat cagttgggct tccatttaca aggatagata ttgaggctga 240
tgtgaggcat cctttaacct aaccaatcca cctttcatga aacccattc ttctcatcat 300
at 302

<210> 17033

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17033

agcttgatg taaactatat gccttggtta acctggtaac ccaattggcc atgaataaaa 60
aatctgcact tgtcgccata ctctatgggt tatgctctc tgttgaccac cacacagacc 120
tttgccttc tgtgcagcaa tctaaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180
tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240
tttccagcaa cagatagaat cctgngtgga ggaatcatcc caaccttaga tggtcgaatc 300
cttcacaaca acagcaacaa caacaacatc cttattttca gaatgttggt ggccctagca 360
gaaccatacg ttctccacct atccagtagc aataacaaca acagcaacag 410

<210> 17034

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17034

agctttataa ttctctatag ataacaatca cccttgagca atccctaac atgtgaagaa 60
atgactcctt aatcgctcca cacctgcaac aagaaagggt agaagataaa tgtcgtttaa 120
cacgaaaaga aattgtaggg aggctgcat ggaaggcaag tcaaaggaag aatttgacan 180
ttttaggtaa aggaggcttc caaacacaag accagttcac tagaaaagaa gaatgaatgg 240

caggctctcg gattaaccac tcgaaggcat atttagttga aaagcaccct aaactagatg 300
 gggtccatat aattntgtca agcatatgaa taacaagtgt ggtactcatc attttgagtc 360
 taatattant tggtagagtt gataaacagt gtcccaattc actgccctca atggaatgta 420
 ttatgc 426

<210> 17035
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17035

tatcttattt tccgatcgcg accctctgtt catcagtgga ttctggcagg agctntttaa 60
 gctcagcggc actcaccttc gtatgagttc agcctaccat ccacaaagtg atggtcagac 120
 tgaggttatg aatagagtaa ttgagcagta tttgcgcgct tttgttcacc gtcggcccgg 180
 aaattggcgt aaatacttac cctggattga gctctcacac aacacttcat ggaattccgg 240
 cacaggttcc acgccctatg agattacatt tggacgataa ctttcttcat taccggaata 300
 catctcggga acttcanaat ttgatgctgt ggacgaatct ttatacaccg agaggaagtg 360
 ttcattgcat tcgtagaaat t 381

<210> 17036
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17036

tgcttgtact ttccagtgat ggaatgaatc catatggcag tttaagcact caacacagtt 60
 catggcctat tttgctagta atttaaaaact tgtctccttg gttgtgcatg aagcaaaaat 120
 gcatgatgtt atctatgatg atatcaagcc caagacaact aggaaaggac attgatattt 180
 atctcagtc cttgattgaa gacttgacaa agttgtggga caaggggggtt actgtgtttg 240
 atggtatcaa aataagacat ttaagttgcg tgcaatgcta tttcgtacca ttaatgactt 300
 tccagcatat gagaatntga gtggatatag tgtaagggc catcatgcat gctctatata 360
 tgaagaagac acaagccatg tacaattgna catggaagaa aatatatata ctcggcattg 420

catttttcta

429

<210> 17037

<211> 416

<212> DNA

<213> Glycine max

<400> 17037

acctcgggtgg taaaaggtat gagcatttga atttctcgag agcttccatt ttttaatttc 60

aaacgtctcg atatattatg cgcccgaatc ggacatccgt gtgaaaaatt atgaccaata 120

gaatttctcg agagcttacg ttgggtcattc tcgagagcct ctatatagga tgcgcctgaa 180

tcggacatcc gagttaaaag ttatgactat ttgaatttct caagagcttc cgttgcccga 240

ttatgagcgt ctcgatatgt gattcgcgat aatcggacat ccgtgtgaaa aggtatgact 300

atttgaattt cacaagagct tccgttgctc aattttgatc ggctcgatat gtgattcgcc 360

cgaatcgaac attcgtgtga aaaggtatga acatttgaat ttctcgagag cttccg 416

<210> 17038

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17038

agcttgtcta cttccttctt cactacatca agaatcactg ggttgagtct tctctgtggc 60

tgtcttactg gtttagcccc atcctctana tttatcta atgcatacatgt ggatgggcta 120

ataccaggaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaattgat 180

aaaaacttct cctcttgctc atcaacaagg gaggcaaata taattactgg aaaacgtttg 240

ctatcatcca agtaagcata ttttanattt gatggcagag gcttcaattc tgggtgtgggc 300

ggttgataa tggtagaagg agatggtnct tcagcctgta ctcataaag acagtcagag 360

gtatgtgtac ttcttgaaac atggctagtt ctatcagact ctacgacacc tactctacg 419

<210> 17039

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 17039

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agcttttctg aaacatcatc taacacatcc tttatgggag aaataacatt agactcatca 60
aaggaaacat gaatggatcc ttcaatagtc ataantctct tattgtatat tctatatgct 120
ttactatgca aggaataacc aaggaagatt ctttcatccg acttggcatc aaactttcct 180
aagtttcttt tccattatct aatacaaac atttgcaacc aaagacatgc atatgtgaaa 240
tgtttggttt tctaccattg aataattcat aaggagtttt ctttaagatg ggtcttatta 300
aagccctatt taagatgtag catgcagtgt taacagcttc agccanaag tattttgaaa 360
gtggagtatc atttaataag gttcttgcta tttcttctaa ngatctattn ttcctttcaa 420
caacacc 427

```

<210> 17040
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17040

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taacctanat ggctcccatt ctttccctaa accacattct ttctgaattc tttagtgtct 60
acaccttctt ggcgccaat gaacgtcttg ctctattctg tcttccaatt aaattaatgt 120
aagaactaag aagggttctt ggtatactct ctctaactct aacacaacac acatgatgta 180
ttagtattag tttaaattta gtgaaaatta taaaataaaa taaaattca acaaattgta 240
agttgaatcc acagaactta tattttttaac taataataaa agaacgtgtt taaaagagct 300
tgttggtaat attttttcat gtgtaattaa atgtaggtaa ttattataca agttcattta 360
agacattgtg ctgtttggtt tagatttaat ttaatatact gtgaatatca acttgacatt 420
ttattttt 428

```

<210> 17041
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17041

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tatcagtcaa gcccatanat aaatgtggca aaatttgcca tggtataaaa ataaggtcga 60

```

aatgtggaat taagtctact attaataatac tatttatcta aatatataaa tacatagtgt 120
 ttttttactt taaataggat atcaatttta tatttattag attcaatcat taaaaactaa 180
 tttttttaaa cggggggaact ttttggatat aaaaatctat tgttagataa aaattaattc 240
 ctttaaaaaa gataacgcaa atattattat aaagtctata catatatata cattagaata 300
 taccttaaaa aatttattta ttntattatt atctaaacaa ttagtatata taaatattct 360
 acaatagaag aattccaata tataaatata tagtacatag atnntaatat atgtgtgagg 420
 taattctact ttntaaatat t 441

<210> 17042
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17042

agctttttaa gtttagcatta natgtaaact aggcgaatcc taagagtgtt tggatgacca 60
 cattcaaggt tcccaacaaa acactcacta tccaaaggaa gaattgccta aaattattac 120
 acacaaatgg aattntggta acctattgga ggctcccaac acacttccat tgaaaggcct 180
 ttttgttaca aaacttgaaa gcaatgaagg taagtaaatt gcaaattaca aaattacaaa 240
 atggtcctca attntgggtg ttgttctctc tttgggtgatt cactcaattt ggagtgcctc 300
 ttagtccaat agctcttaag gtggttggtt cctttcttct tgactcanat tcttcaaggc 360
 atggcaccaa tctccttcc aattccctat atggcaaccc acanacaagg aaacaaagag 420
 acaagcaata atc 433

<210> 17043
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17043

cttgtgcatt caatatactg atgaggggtg tccatatgtt cttatgactg ttctaataca 60
 tttgtgccc aagtttcatg gtcttcagg tgaagatcct tataagcatc ttaaggagtt 120
 ccatattgtt tgttccacca tgaaaccccc taatgtccaa gaaggtcata tctttctaaa 180

ggcttttccct cattcttttg agggagtggc aaaagattgg ctacactacc ttgctcccaa 240
 gtccattttc agcanggaca ccttaaaggg tgttcttgga gaaattcttt cttgcatcta 300
 ggaccactac catcagaaaa gacatttcag gcattaggca acttagtgga gaaagcttat 360
 atgaatactg ngtgagattc aagaaactat gtgccagttg tcttcaactac cagattttctg 420
 agcagcttct ctttcaata 439

<210> 17044
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17044

ttcttgtag ccaaatccac acactcgtct tcgttcagtt gattaatagt cttctggtaa 60
 ggtatgcagc ctattggccc aacgtttcct atgacaaact ttctagcatc catttggtaa 120
 agtctctgcc attccaatca aacatgccaa gttacacatg aaaaaaata aaataaaata 180
 aaatacagta aatntttggt tggattnttt ttttaataaac atttataaaa gaaaaaccca 240
 aaagtaaact gaaataaact tcttgccctca tcaatcaaaa tgaaataagt taatttataa 300
 aaatccttcc acttaatttt ttcaaaaact gattntaact tataagagaa gtttaactcg 360
 tgtatcttnt ttatcttaga ataaggaaac aagaaggtaa nataaaacaa tnttttataa 420
 atngatataa cttat 435

<210> 17045
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17045

tatcttttgc aacagcatta ttaattntgt gagccccagt gtgattgaga tcttccctct 60
 tcagataaat gtgaggtcct tcaccattag gcctcttgta atgctccgtc aacctttcag 120
 caaaataaag aggactctcc cggccaacat aatcttttag aatcccagcc agttctgtct 180
 gcaactcaaa atctaagaaa atttccattg tttttccttc caggaaacta catttcatgg 240
 tttctgaatg tagttaacat acaaatatga gagatgtgct agtatgtang agagacagan 300

agttattctg aatctaattg agtgaagatt aacatggagt tccaaattgg ttagttctgt 360
atgaaactcg aaaaatanaa gactaaagaa attctgaaga atgaaatgat acacattcaa 420
acagtcacaa aat 433

<210> 17046
<211> 388
<212> DNA
<213> Glycine max
<400> 17046

tagccattgc gaattatatg cagtcgaaca tatattatta tgatctttat ctttattctt 60
tagtataaac agaaaagatc gactttgatc agtatatgtc ctatggcaat ctattaaaca 120
atttaattaa ttaattattc gacagaatac atatctgcaa gtttcaatat atattttatt 180
caacccaaaa cttatctata tcaggaatat gagtaattat gtttcaacac cataaatatt 240
taacaaaaaa gaaattagtt cgatatagct ataactaaat catagcagat tatcaatcaa 300
gttacatgta gtagtgtatc ctattgaaat gaaactatct ttgagagtct tatgagctaa 360
gcacgttaga atttggaatt aggggtatc 388

<210> 17047
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17047

tatgctgcaa acacttataa tagtatctcc tcaacagcaa atccaacaac aatagaataa 60
ttatgacctt tcaagcaata gatacaatcc aggttggagg aatcatccaa atctgagata 120
gacaagtcc tccacaacaac atcagcctgt cctcctttc caaaatgcta ctggtccaag 180
caagccatat gttcctcctc caatgcaaca acaacagtag cagtcacaac aaagacaaca 240
agcactgatg cctcctcaa ccttccttag aggatttagt gaggcaaagt accatccaga 300
atatgcaatt tcagcaagag acaagagcct ccattcagag tctgacaaat tagatggggc 360
agatggctac tcagttgaac caagctcaat cccaaaattc tgaccaattg ccttcacana 420
ctatgcagaa tccg 434

<210> 17048
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17048

tggaggaaga aggagatgaa taaagggaga gggagagaag atcatgattt ttgtgtctct 60
 aagagagctc tgaaatctga agtttaattt tcaaagatc aaagttgaaa aaattgcaca 120
 cacatgacct ctatttatag cctaagtgtc acacaaaatt ggagggaaat ttgaatttct 180
 attcaaattt cacttgaatt tgtggagcca aattttggag ccaaaatttc actaattatg 240
 attagtgaat tttaacctgg ttctccact aatccaagat gaagtccaag attctccact 300
 aagtgtgctt aggtgtcatg aggcattgta agcatgaagg acatgcacaa agtgtgacta 360
 tatgatgtgg caatggggtg tagcaagcaa attctcacct tcccctctna aatttaattg 420
 ga 422

<210> 17049
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17049

agctttattt nttaattacg agcgtcttta tatattacag gactcaatca gacatccgaa 60
 ttgaatgtta ttgtcatttc acttttcata gagcttccgt tttcaatttc gagcgtctcg 120
 atatattaaa gggctcaatc ggacattcga gtaaaaagtt attgtcgttt gatttttgta 180
 agagcttccg ttttcaattc cgagcgtctc gatatactat gggacacaat caaacatccg 240
 attcaaaagt tattgtcggt tgaatgtgct cagagcttca gttttcaact acaagcgtct 300
 cgatatatta cgggactcaa tcagacatct gaagttaaatt tattgtcatt tgacttttca 360
 tagagctctc gttttccata tcgagcgtct tgatatatta at 402

<210> 17050
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17050

ntaagaanag tcaaccgaca attacttntg acttcggatg ttgattgttt cctggaanac 60
atcgagacgc tccaaattga aaatggaacc tctaagaaaa gtcagacgac aataactttt 120
aactcggatg tctgatcgag ccctgtatta tatgaagacg ctcgaaattg aaaacagaag 180
ctctaagaan agtcaaacga gaaaaacttt tgactcggat gtccgattgt gtcccgtatg 240
atatcgagac gctcgactga aaacggaagc tctgagaaaa atcaaacgac aataactttt 300
aactcggatg tccgattgag ccctgtatta tatcgagacc ctcgaaattc aaacggaacc 360
tctaaaaaag tcaaacgaca ataactttta actcggatgt ccgattgagc tctctaatat 420
atcgagacgc 430

<210> 17051
<211> 406
<212> DNA
<213> Glycine max

<400> 17051

agctttttatt atgcatgtca tattcttaat agggctcctt ataaaatttt gaaaaaaacc 60
tttatgagtt atggagaaaa agagaaccaa atatgaaata tcttaaagtg tgggagtgtc 120
ttgcaaaggt taacatccct attaataaga aaagaaaaat tggaccaacc gttgattgtg 180
tttttgttgg atattttttg catagtacta cttatagatt cttggttggt aattctaaag 240
tggtcaaaat ttctaataat actattatgg aatctagaga tgacactttc ttgaaaatg 300
tttttccttt ggaaaaaaaa aattgtctaa acccgtttgt gatacttctt attctgattt 360
gtcatcttgt agtaattcta ataaggatgt tgtttttgaa cctata 406

<210> 17052
<211> 411
<212> DNA
<213> Glycine max

<400> 17052

ttcttgcaag cttaaacatt caatttcgag gctctcgata tattacggga cttaatcaag 60
catccaagaa aaaatttatt gtcgtttgaa tttgctcaga gattcaacat tcaatttcga 120
gcgtctcgat atattacggg actcaatcag acatccgagt aaaaagttat tgctgtttga 180

attggctccg agcttcaaca ttcaatttcg agcgtctcga tatgttacga gactcaatca 240
gacatccgag taaaaagcta ttgtcgtttg aatttgctca gagattcaac attgaattgc 300
gaggggtctcg atatcttacg ggactcaatc agacatccga gtgaatagtt attgtcgttt 360
gaattggctc agagcttcaa cattcaattt cgaggggtctc gatataattac g 411

<210> 17053
<211> 410
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17053

tgtttattgg acttgtaact taacttcttt aatttccaca tcttgtggaa ctgtactccc 60
attgatttca ccattttcaa tgaatcttgc atttccagct ttgaaaattc tcaactatg 120
attaggacaa taaaacatat accccttttg acttttctgg ataaccaatg aaatatccac 180
tgattgttca tgcattcaat tttctttctt gtggattata aatccttatt tctgcttggc 240
aaccctaaac atgcaagtgc cttatactag gtgtcttttg aactgcctta ctaggaaccc 300
tattcaacaa atacatggta ttnttcaagg catacatcca caaagataca ggtaaatttg 360
aattacttaa catactccta accatatcca ttaaaattct attacgcctt 410

<210> 17054
<211> 394
<212> DNA
<213> Glycine max
<400> 17054

agtttcttac aaagcatacg gctttctgga tgtagatgat gatattata cagatggatc 60
ttatatatct atatatttat agatagatat atacatatag atatatagat atagatcata 120
caatgaagta ccgcacgagt gggatatatac gaatccaaat ctgccgaatc actcatgtta 180
tgatcttcta catcctaggt cttcccggtc cttcatctgg cttatgttct tcatgtagca 240
ttcagactga atgactctat gatatgacgt cgctacttcc acatgggtac ggtaacgtac 300
gagacatctc tatttttccc ggggggaatc cttagagtga ccacagctta gctttcaatt 360
cgctctgac catcaaatga aatgtgaata accc 394

<210> 17055
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 17055

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agcttttcat catgggctaa gtttgaaatt gggagggctg ctgtctattg gaaaaccatg 60
aatggcctcc ctctacttc agtaagtata aaagtattga gttaactcat tgcttggtat 120
tcaatcaatt atctttcagt aaaaaaattt acaaattttg gcagggagaa aagctaaaac 180
ttttctataa tccagctgca actcaacttg tccctaataga agaatttgga attgctttta 240
atggtaattt ttgcaatggt acttggttgc ccaaaaatgt catttgccat tgcatttgta 300
aggaaaaata ttggatttca ttataaacag acataaactg caccaagaac aagcgatata 360
aattacacat cgtaattcag aattagcatg tatgtttgga gtcaatggaa a 411
```

<210> 17056
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 17056

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agctttctcta aatattatgc gcctgaatcg gacttccggg tgaaaagtta tgaccattgg 60
aatattctga gagcttccga tgttcaattt cgagcatctg gatataattat gcacctgaat 120
cggacttccg tgagataagt tatgaccatt tgaatttctc gagagcttgc gatgctcatt 180
atcgagcttc tcgatataata atgcgcctga atcggacatt cgtgtgaaaa gctatgacca 240
ttggaatttc tcgagagctt ccgatgttca atttcgagca tctgaatata ttatgtgcct 300
gaatcggaca tccgtgtgac atgctatgac catttgaatt tctcgagacc acacgttggt 360
caatttcgag agtctcgata tattatgcgc ctgaatc 397
```

<210> 17057
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17057

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agcttggttta ttcaaatttc aagatacaag tgaactcccc aagaagtgac atggcccact 60
```

tgtgggttttc caatctagct tacattctgc aaagttagaa tatgaaaatc caattaaact 120
 caaggaggta cctttggggt accttaaacc aacattgggt gtgcccttaa ggtacttaat 180
 aatccttttg acaacattta aatgggtattc cttgggattt tatttatatc tttcacatat 240
 gcacacactt agcatgatgt caagttgggt tgtagtcaaa tataggagat aaccaatcat 300
 acctctatac tttgactcat ctaccgattt acctttttca tccaagtcaa gataaatgga 360
 tgttgccatt ggtattgttt cttccttaca ctnttcata ttgaaattct taat 414

<210> 17058
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17058

agctnttang attttcaaac gacaataact ttttactcgg atgtctgatt aagtcccgta 60
 atatatcgag acgctctaaa ttgaatgttg aagctctgac caaattcaaa cgacgataaa 120
 tttttactcg gatgtctgat tgagtcctgt aatatatcga gactctcgaa attaaatgtt 180
 gaagctctaa gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
 taatacatcg agacgctcga aatttattgt tgaagctctc agcaaattca aacgacaata 300
 acattntact cgtatgtctg attgagtccc gtaatacatc gagacgctca aaattgaatg 360
 ttgatgtctc cagcaaattc aaacgacaat agactttttac tcagatgtct gat 413

<210> 17059
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 17059

agcttgcatg atttacatct ccccttttct caagaaaatt cttcttttga tcatcaaatt 60
 cttcatgatt tacaagaagg tccacctgca tgaaatTTTT tgtttaggaag ctttctcttt 120
 tgtgcgacta tgtcatcctc tttctcaggt gtagaagcaa gcttgacagg ttcaggtgca 180
 ggtgctgcta ctagtggagg cacttgaatc tggttgtcag acttcaaggt gatggcactc 240
 acattttttg gattctgcat agtttgtgaa ggcaatttgt cagaattttg ggactgagct 300

tgattcaact gtagtagccat ctgccccatc tgatttgtca gactctaaat ggaggctctt 360
gtctcttgct gaaattgcat attctggatg gtcatttgcc tcactaactc ttc 413

<210> 17060
<211> 407
<212> DNA
<213> Glycine max

<400> 17060

tgtttgtatg ctaccgggct catcctctca acaattttaa aggggtccata gaaacgcctc 60
gaaagctttg actggcctgt tccggccacc gtggtttgcc gatatggctc cagcttgact 120
agaaccact tatttacctg aaactcatgg tccctgcgat gtccatccgc gatttccttc 180
atgcgagcct gcgctttctg caatttccgg cgaaggaggt taaacatgtc ttcctctga 240
ctgagcaaat cgtccactgt tgctacagtg gaggtgcctg ttaagtattg gggcaaactt 300
ggaggtttgc ggccaaatgt aacctcgaag ggtgtagcc tcgtggctga gtggacagac 360
gtgttatacg accactctgc ccacaacagg aagcgcccc acgaact 407

<210> 17061
<211> 411
<212> DNA
<213> Glycine max

<400> 17061

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aatctgtact tgttgcaaga atctgtggtt tatgtctctc tgccgaccac catacagacc 120
tttgcccttc tgtgcagcaa tctggagcaa ttgaacagcc tgaagcttat gctacaaaca 180
tctacaatag acctctcaa cctcaacagc aaaatcaacc acagcagaac aattatgacc 240
tctcctgcaa cagatacaac cccgaatgga ggaatcacc taatctcaga tggcttagcc 300
ctcagccaca acaacagcaa cctgtctctt ccttccagaa tgctgctggt cgaaatagac 360
cataggttcc tccaccagtg caacaacaac agctaccaca gcatcaacag a 411

<210> 17062
<211> 411
<212> DNA
<213> Glycine max

<400> 17062

agcttgatg taaactagat gccttggtta acctggtaac ctaactggcc atgaatcaaa 60
aatcaacacc tgtcgccaga ctctgtggat tatgctctc tgccgaccac cacacagacc 120
tttgcecttg tgtgcagcaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180
tctacaatag acctctcca cctcagtagc aaaatcagcc acaacagAAC aattatgacc 240
tctctagcaa caggtacaat cccgagtggg ggaatcatcc caaccttaga tggtttaatc 300
cttcacaaca gccgcagcag atacaacagc cttattttca gaatgctgct ggcccaagca 360
gaccatacat tactccacca atgcaacaac atctacagcc ccagaaacag a 411

<210> 17063

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17063

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gagtcccgta atatatcgag acgctcgaaa ttgaatggtg aacctctgag ccaattcaaa 120
cgacaacaac tttttactcg gatgtctgat tgagtccgc aatatatcga gacgctcgga 180
attgaatggt gaagctttga gcaaattcaa acgacaataa ctttttactc ggatgtctga 240
ttgagtcccg taatatatcg agacgctcaa^{*} aattgaatgt tgaagctctg atccaattca 300
aacgacaata actttttact cggataattg attgagtccc gtaatataac tagacgctcg 360
aaattgaatg ttgaagctct aagccaattc aaacgacaat aac 403

<210> 17064

<211> 410

<212> DNA

<213> Glycine max

<400> 17064

agcttatgct tctaaaaagc tataggtaat gtaatgtaag aagcaagtgt atgatgaatt 60
acttcatggt tctaattctc cttattagtg attatctaata taacaatttc atgaaattaa 120
cagcttctctg aatacattgg cattttcaaa gatcatgaag aaatatgata aggtgaaaat 180
tcaattaccc ttcacttcat tttactcatt taaactttat tatctgtact atcacttgac 240

atagtaactt cataattcag atcacgtcaa gagatgcagc tgaagcttat atgagaatgg 300
 tggacaactc ccaccttggga agttctgatg aggtgagagt gctaataaga aagtctccca 360
 ttgagattca ttattctttt acatgtaact tctatacacc gttagttaa 410

<210> 17065
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17065

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 accattttgg tgggtgtgat gagggcatat gagtctatga ataatacaa gctctgcaag 120
 atacttagta aaaggctctgt attccccctcc ccaatcagac tagacagctt taataggcaa 180
 attaaattga gttttcacca tagtttgaaa ctgtgtaaag ataggtagtg tctctgattt 240
 atttttcaac aagtacaacc aagtgaacaa agtgtgagca tcaacagaag ttacatagta 300
 tttataaaca gtgtaaatga gttcaaaagg agttgaatac acagtaagag agggagagga 360
 gggaagttat gagattcgcc aatgcaacaa tgggaacaan agtcagaact t 411

<210> 17066
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 17066

agcttgctac atatcaccta tgttcaccac taggggttctt tcagatgggt ttatatctat 60
 ccactctccc ttatttgatc tgacttgaag cctctctatc tcatgttgat ataagatagt 120
 aatacaactc atatcaatgt gcatcccaag cccctcaact tgatcttcta taacttctgg 180
 agctgagtaa tcgtttaccc aacatatcca accatgaaca ctcttcata cttgattcac 240
 ttcttgtttg ttcttttggg tactttcatc cgatagtctt catgatgcaa accatttacc 300
 tttcaaaatt ttacctatac ctcaattttt gctactgcac atggtaattg gtaagcctaa 360
 caagtacatg gaaaaaagga gatagacccc actgggttgc aagtaaacta a 411

<210> 17067

<211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17067

agcttgtaat tgaacaatgg aagatcttga gaaattcaat cggctcttaac ttttcaactcg 60
 gaagtcgat tcaggcgcat aatatattga gacgctctcg tgaaattcaa atggtcataa 120
 cttttcactc agaggtccga ttcaggcgca taatatatcg agatgcacat aattgaacaa 180
 cggaagctct cgagaaattc atatgggcat accttttaac tcggagttct gatttaggcg 240
 cataatacat tgagacgctc gaaattgaac aatggaagct ctgagattt tcaaatgggc 300
 ataactttta actcggaggt ccgaatcagg cgcataatat atcgagacgc tcaaaattga 360
 actacggaag ctctcgagaa attcaaattg tcataactnt taactcgga 409

<210> 17068
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 17068

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 aatcattgct tcaaaagtta agagatgatg ggtgggagcc attaaagatg tcaaaaattt 120
 ttgtgttagt aatgttattg atattcttga ttttaatact caatatttaa gaactcgagg 180
 taagccccgt cataagaatg ttgacacttt tgtgactatg gagaaccgtt ttagatatga 240
 catatttaca actgccattg actttcaatt acaagagctg aataataggc tttgtgacct 300
 aacaatggaa ttaattattt ttagctcagc tttgagtctt aaggatgttt ctaaactcct 360
 caaagttgat tatatatgaa atttagttgc ataattattat caaaggat 408

<210> 17069
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17069

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tttaaatgct taattaatgt agtttttaaaa ggatgttgat ctctccattg cgtangcaag 120
 agcaagacaa cgcttaccaa acaaaaaccg ctcttaattt ttaaaacata taataaaatg 180
 ttcccttatt ataataatca aattgacttc aattagcata aaaataatag ccttttagtgg 240
 gacaatccat agtaacctag gaaactcagt acaaatacac attaaaaata caaaagccca 300
 aggatataat atgcttcaaa tatttgtttt ccacactcaa ~~attgccatat~~ ~~cacgggtgaa~~ 360
 taagtgaatt caaaccaaga tctaaacaaa nagctatc 398

<210> 17070
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 17070

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 gaagtgcgat tcaggcgcgat aatatatcga gacgctctcg tgaaattcag atggtcataa 120
 ctgttaactc agaggcccgga tctatgcgca tagtatactc agatgcacat catggaacaa 180
 cggaagctct cgagagactt atatggacgt gacctttaac tcggagttct gattcaggca 240
 cataacacat tgtgacgctg gagatggaac aatgaatgct gtcgagactt tcaaattggac 300
 ataactgtgg acgtggaggc atgactcggg cgatgagata tagagacgct cataatgaac 360
 tacggaagct ctctagaaaa tgaatggcac ta 392

<210> 17071
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17071

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 caattaaaat tcttttacct cctcctgttt tgacaaagag agtgtgctca tgatcgcac 120
 gttcaaatec ctcttcaca aaataggctt caattttgct ataccaagca cgtggtgctt 180
 gctttaaccc atataaagct ttcttaagct tgtagacctt ctcttcttca ccctttcgaa 240
 cataaccggg tgggtgttcc acatacacgt cctctgtcaa ttctccgtga agaaatgcgc 300
 ttttgacatc tagttgatac acattccatc ccttttgtgc tgctagagct aaaaccatcc 360

ggattgtgtc ccaccttgct accgngcaac acacttcgtt gtagtcaatc ccttg 415

<210> 17072

<211> 407

<212> DNA

<213> Glycine max

<400> 17072

agtttgtgtc acaattcact gtgacagtca aagtgtcatt cacttatcaa atcaccaaat 60

gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120

atctgagaag gtgaagggtg agaaagtttc aacagaagaa aatccggctg atatgttcac 180

aaagtccctc tctagtgtca agttcaagca ctgcctggac ttgatcaatt tcgaagatgc 240

ctaaagcagt ttggtagaag tgcagcccta aatcacaagg aagacacttg ctgatttgga 300

gtcaagggtg agatttgtgg tgtgtgactc aaaatcaciaa tttgcacaag tgagaaggct 360

ttaaagtggg gttgtcataa atgttatcaa gtattataac tgaattg 407

<210> 17073

<211> 404

<212> DNA

<213> Glycine max

<400> 17073

agcttggtat tggacaacgg aagctctoga gaaattcaaa tggtcataac ttatcacact 60

gaggtccgat tctggcggat agtatatoga gaagctcgga attgaacaac gaaagctctc 120

gagaaattca aatggtcata acttttcaaa cggaagtcg attcaggtgc ataatatatc 180

gagaagcttt aaattgaaca acggaagctc ttgagaaatt caaatggctg taacttatca 240

cacgggagtc cgattcaggc gcataatata tcgagaagct tggaattgaa caacggcagc 300

tcttgagaaa ttcaaagggt cataacttat cacacggaag tctgattcat gcgcataata 360

tatcgagacg ctcgaaattg aacaacggaa gctctcgaga aatt 404

<210> 17074

<211> 413

<212> DNA

<213> Glycine max

<400> 17074

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 cagcgtaatg gagatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc 120
 aagaaaaaac tcaccaccat aggaagtcac ggataagagc ttgaaggtag gagaagatga 180
 atggaggaag agggagagaa ggagcacgaa attttgtgcc tcaaatgaga tttcaacttt 240
 gaagtgtgat tctcaaatta tcaaagttga aaaaatgcac atacatgacc tctatttata 300
 gcctaagtgt cacataaaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat 360
 ttgaaattca tgaatttgtg gagccaaagt ttggagccaa aatttcacta att 413

<210> 17075
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17075

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 gatatggaag aaagatgatt ggagacgcca cttcaaggag aagatgtgtc aagaaataac 120
 tcaccaccat aggaagtcgt ggatatgagc ttgaaggtag gagaagatga ttggaggaag 180
 atggagagaa ggagcacgat attttgtgcc tcaaatgaga tttcaacctt gaatggtgat 240
 tctcaaatta tcaaagttga taaaatgcac atacatgacc tctatttata gcctaagtgt 300
 cacatacaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat ttganatgca 360
 tgaatttgtg gagccacagt atggagccag aatctcact 399

<210> 17076
 <211> 396
 <212> DNA
 <213> Glycine max
 <400> 17076

agcttggtat tgaacaacgg aagctcttga gaaattcaaa tggtcataac ttgtcacacg 60
 gaagtccgat tcaggtgcat aatatatgga gacgctcgaa attggacaac gaaagctctc 120
 gagaaattca aatggtcata acttttcaaa tggatgtccg attaaggcgt atattatattc 180
 gagaagcttg aaattgaaca aaggaagctc tcgagaaatt caaatggtca taacttatca 240

cacggatgtt caattcatgc gcataatata tcgagaagct tgaaattgaa caacggaagc 300
tctcgagaaa ttcaaattggt cataactttt cacacggaac accgattcaa gcgcataata 360
tatcgagact ctcggaattg aacaacgaaa gctctc 396

<210> 17077
<211> 395
<212> DNA
<213> Glycine max

<400> 17077

agctttaga atagttaaac gacaacaact tttgactcgg atatccgatt gtgtctcgta 60
agatatcgag acgctcgtaa ttgaaaacgg aagctctgag aaaaatcata cgacaataac 120
ttttaactcg gatgtctgat cgaaccctgt aatatatcaa gacgctcgaa actgaaaagg 180
gaagctctaa gaaaagtcaa acgacaataa ctttttactc ggatgtctta ttgagccctg 240
taatatatcg agacgctcta aattgaaaac gaaagctcta tgataagtca tacgacaata 300
actgttaact cggatgttcg atagagccct ttaatatatc gagacgctcg aaattgaaaa 360
ctggagctct aagaaaagtc aaacgacgat aactt 395

<210> 17078
<211> 389
<212> DNA
<213> Glycine max

<400> 17078

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taattagctg acagtctgat catgctgata tatatcaata agttaaattt gatagtgata 120
ctggtgtata tattaaacta cattgagatt tggcaaaaagc aaaaagctat taaacaatgt 180
cttgtgttgc attctcattc aagaaacagg tttcaacttc tgtacaaaac agaaaatcct 240
tacaataaaa gaaaacagct tctgttcaaa tttgcctcat cttatctgtc tgtgtctcca 300
ttagcatgat ttacaggtca ttcaaattgac aggcgacagt taggaactca tccttcttac 360
atggtattgt gagaccaccc attgcgtgc 389

<210> 17079
<211> 394
<212> DNA

<213> Glycine max

<400> 17079

agcttgtttt ttaattatth gtatgggttg gatgttgaat tctggttgtt cctgggtgcgg 60
agatgatggg acagcgggtg aaccagaagc ggaagtttct tttggtgagg aagccatgga 120
aaaacagagc gtttggaatg atttcataaa tctcagaaaa ctattgggaa atgctggaga 180
aaacacgaat gcctagcaga tataaatttg aatgaagaat gtagaggggc gtgtgaagca 240
acggtcgaat ttgctttgtg gtgaacgtgc tattaatggt aagtgattcg tttgggcacg 300
ttcagattgc agtagctgct ataattcctc tagcaaacia atgccagct tgcccctcag 360
tttttcaaac tgatttgcac ccaaagcctt tgtg 394

<210> 17080

<211> 382

<212> DNA

<213> Glycine max

<400> 17080

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gtggcgctct caatcacctt tctccttct ccattccgct accattgatc ttcaagaagc 120
aaaggactcc attgatgagg aagatccaag gcctacaagc tctacattga gctacatcat 180
gtggatttag agcatcttca tctaagcgat gttcttttgc tctctctatc tttttgttcg 240
gtcaattgac tttaattcct tgttcttcat catcttctcc atgtatctgc tccattgtct 300
tatggtttgg ctatttttag agtagattca acaaaataaa ccgattaaat cttagataag 360
cactcgttct tgcatttcta tg 382

<210> 17081

<211> 280

<212> DNA

<213> Glycine max

<400> 17081

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gctccgctcg gcttacatga aagtctggct agggccacga tctatttga aagcttgctt 120
aaagacgtct ctgataaatc aattatttta aatcctaata aaatacttac taaaaaaaga 180

aacttatgaa atcccttatt agtaatgcac aaatttctaaa ataattgata aacaaaatga 240
 ttatgaattc tactcgtaaa gcacacagta tattaataaaa 280

<210> 17082
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17082

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 tctaattgca tttcccatgc tgattgacag aggtcgacac tcaataagaa atgatacata 120
 actaccaatt tttgctgtca agtctctcac aagagtcttc tcaggtggaa ccttgtagtc 180
 tttgatggcc tcttgaaatg cttgaagcat tgcaatgcaa cgagcattgc caccagatat 240
 atctccagtt agatactgca agcccacctg aaacaccata aaacaagatc attaagattt 300
 gggaaaaaat atttcaaaag gcttaggtca caaaacatat tgacctgacc caggtcctaa 360
 tcactgatat tcattaaaac accataaatt ttaatt 396

<210> 17083
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 17083

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 tcctcaattg tcacatcttt tcatttggat cttgaatggc tatcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gctaagagtt tttcacaaca aaaaggctctt atcctcttaa 180
 aaagacaaat cgttttatcc tcttacaat tccttggcca caacacttgt gattcaataa 240
 ggaattatct gagtgtcaa attgatcaat ctatcttttt cagagagat atcgtcttat 300
 cttcttctct attctgaaaa gggattaaga gaccgacggt ttcttgttgt gaaataattc 360
 taaccacaat agaagaattg tcctt 385

<210> 17084
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 17084

atctttttcca gatagaatgt caaagatgga cgatacttta acacaattta tgcaagtatc 60
cagcacaaaac cagaagaaga ctgatgcac c tattaaaaat ctagaagttc aagtatgaca 120
actggcaaaa taactatccg aacaaggaag tggatctttc tcagcaacca cacaggtcaa 180
cttaaaggaa cattgtaatt taattacaac aagggtgggg actatggttg gtttgaagga 240
taatgatgaa aaaagaataa aaaaagagtt gaaaaagaaa acgagaaaaa tgatgaagtg 300
atgactagtg aaaaagtgga agacaaagtg gtaagtgaag aagagaagaa gatatcaa at 360
gaacaaacca gtaataaagg taaagct 387

<210> 17085

<211> 370

<212> DNA

<213> Glycine max

<400> 17085

agcttgttct tatacaaacg accataactt ttactcgga tgtttgattg aggctcgtaa 60
tatatcgaga cgctcgaaat tgaatgttga agctctgaac caatataaac gacaatgacc 120
ttttactcgg atgtatgatt gagtcccgta acatatcgag aactcgaaa ttgaatgttg 180
aacctctgag catattcata cgacaataaa ttcttactca tatgtctgat tgagtcccg 240
aacttatcga gacgctcgat attgaacgtt gaagctctga gccaatatac acgaccataa 300
ctttttactc ggatgcctga ttgatgctcg taatatatcg agacgctcga aattgaatgt 360
tgaacctctg 370

<210> 17086

<211> 389

<212> DNA

<213> Glycine max

<400> 17086

tagcttgttc acctttttcc tcacatcttc cttcattgat gggttgagcc ttctttgggg 60
ctgtctgact ggtctgtaat cttcttccat cattatcttg tgcatacagt aagcgtggct 120
gattcttttg agatctgata tgtgccacct aattgcctcc ctgtatctct taaggacctt 180
taccaacctg ttttcttttt ctgctgtgag ctactgctg atcaccacag gcttggctct 240

gttcttctcc aagaacacat acttcaggtg gttgggtagg atcttcagct ttaccttggt 300
 cttctctgat ggactcccg c ttttcaattc ttcgaaactg gtccccatta cagtaatat 360
 gtcttcacaa tctaagtctt ccaagaaag 389

<210> 17087
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17087

tttnttttta tcccatctac gcatggaaga cctttcatca tattcttttc atgtaccaac 60
 ttcaaagctt gagtgtggaa gtgaccaa at cttcgatgcc ataaccatga atcatcaatt 120
 gttgctctca tggaaacgct agtactagta gtatacttga agcttattgg aaaaatacta 180
 tttactttca acattttaac ttgacaatc tctgtgcttt tgctagtgtgt atcaaatact 240
 gcacgtatct cctttgaatg aacagattag tctttctcca tcatttggtt aatgcctaag 300
 agattgtctt taagatctgg aactaaccat acatctctga tgaatcttgt acctttcttt 360
 gtctacagca tgat 374

<210> 17088
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17088

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 cctgaagcta cctacaatcc taagatcaga gttcataaac tatatagccc acatggctgc 120
 gtgaacaagt ccaacaagca gatggaaatt ctttccataa actatactaa agggagacat 180
 catagcggga gccctacagg gttttatgta tgcccatatt gtgtcatcca atttcaatga 240
 ccaaattctt ctatatgctc tcacagtttt ttgtaaaacc ttctatagat acctattata 300
 tacctcaact taaccaattg cttgatggtg atacaaagta ataaccttat gggtaacacc 360
 atatttagcc acatggctat cagacaa 387

<210> 17089
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 17089

agcttccatg tccaagtffc ttatgccaga cccaatgata ttgtttgaca taaagtaagc 60
 aagatTTTTga tttgataact ctcttagtct aatcttataa agatttcctt ttctcttagc 120
 agaataaagt aaagacacat ttttgttctg gatgatacat tcataccttg taaagaaaac 180
 atcatatcca ttgtcacata attgagttat gctcagtaga ttgtgtttga gccatttaaa 240
 aaataagaaa ttatcaatag gaggatatgg atgtatacct atcttaccba ctcttggtat 300
 ttgccctttt ttattcccta tgaaagtgat gggtccacca tgataaggag tcatacattg 360
 gaacatgcac ctttctcctg tcacgtgcc a t 391

<210> 17090
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 17090

tatcttgtat ccggtgcttg atgtcagggg gatgtttcct atcccaacag tcttgctcct 60
 atcttgattt cccatttgca tcgtaccaa gtcaccgctt tggtaggatg agaagaaaact 120
 tccatgtgga gtaacatgga aggaggcacc ggaatcgaca atccaagagc tatcatcaca 180
 agcaatgttt atgatattac cttcaccaac gagatataac aaatcttctt ttgaaactac 240
 ggcagtagta ttcttctttt ctttcttctt tgttgggctg acttggctctg gcttaacgtt 300
 accgattgtg tgatctctct tgaaggattg acattctatc ttctgtggc ccatccttcc 360
 acagtag 367

<210> 17091
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 17091

agcttcattc tttctcttta gtaatgcctt attcatcata tctacaccat taaaggattt 60
 caccttcaaa gggccacaaa catttgaatg caccaattca agcaactcaa attttctgga 120

gggagaatgc ttcttgaagg atactctggt ttgcttacca accatgcaac atgaacattt 180
 ctccaaattt gcattcttca atcctagaaa catatccttc ttggctaaac aattcagccc 240
 tttctcacta atatgactaa gccttcagtg ccacaaaaat gcctccatat ccataacatt 300
 cacattgtct ctagcaacca aagcttttgc ccaatacaac tttgaaagtt tctccccctt 360
 ggccacaatt atgttaccct tagtgagttt ccactttc 398

<210> 17092
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 17092

agcttttagc taattcaaac gacaataatg ttttgctcgg atgtctgatt gagaccgta 60
 atacatcgag acgctcgata ttgaatgttg aagctctcag caaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagtcaccag aatacatcga gacgctcgaa actgaatgtt 180
 gaagctctca gcctattcag acgacaataa cttttttact catatgactg atcgagtccc 240
 gcaatatatc gagatgatcg aaagtgaatt ctgaatctct aagctaattc taactacaat 300
 aactttctgc tcggatgtct gattgagttc cgtaatctac tgagacgctc aatattg 357

<210> 17093
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 17093

agcttttctg tgcaaggaat atccaaggaa aattccatca tctgacttag catcaaattt 60
 tcctaagttt tcattaccat tgtttaatac aaagcatttg caaccaaaaa catgaagatg 120
 tgaaatattg ggttttctac cattaacag ttcatatgga gttttcttta aaatgggtct 180
 tattaaagac ctattcatga tataacatgc agtattaacg gcttcagccc aaaaatattg 240
 tggaacagga gtatcattga ataaaggtct agcaatctct tccaaagatc tattattcct 300
 ttcaacaact ccattttgtt gaggggttct aggtgcagaa gaattatgtt caatgccatg 360
 cttttcacia aatagatcaa attctttatt ttc 393

<210> 17094
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 17094

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atcgaaaagt tggctgagac ttgtattttc ttcacaaacg gggcatgcat gatgaccctt 60
aacactgtaa ccgctgagat tcccacatgc tggaaagtca ctaatgagac agaagagcat 120
tgcactcagt gcacaggtga tacttgagaa tgcacatcgt ctctactaca ccctgattcc 180
acagatttct catatcgtca accaacggac ttagatagac atctgtgatc tttcctggct 240
g 241
```

<210> 17095
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17095

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agctttcttc aacaaacaaa gccttgatgc aagatttctt caagatcaag ccttgcctca 60
aaacaaaggg tttcaaagtc atgcaaggct ctggtaatcg attaccagaa gggaagtttg 120
agaaatagct gttgaaaagg gttttgaaat tgaaatttga acatgtaatc gattaccatn 180
tntttgtaat cgattaccag caatgaaact cctgatattc aaattcaaaa gtcacgaccc 240
ttcaaaatat aattgtgtaa tgcattacca gaaacctgta atcgattacc agtgaagaaa 300
ttcatataaa acttcttgaa aagacacatc tctttacacc atattgaaaa ggcattgaatg 360
gcctatatat atgtgtgtgt gtgaactt 387
```

<210> 17096
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 17096

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tgtagggtta aagtctcacg attgtcacgt gctcatccaa ctattgttag ccgtggctat 60
acgagacatc ttgcaaaca aagtcagggt cagcataact cgctgtgct ttttcttcca 120
tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180
```

aattatactg tgccagctgg agatgtatTT tccccctgct ttctttgaca tcatgattca 240
 cttgattgtg catctgggtca gagaaatcaa atgttTgtggT cctgtttatc tatggTggat 300
 gtacccgggt gagcgataca tgaagatctt aatagggTat acaaagaatc tatatcgTcc 360
 ggaagcatct attgtTgaga ggtacattgc agaagaagcC attgaatttt gttcagaata 420---
 ctt 423

<210> 17097
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17097

aatggatgta aagagtgcatt tnttaaattgg cttgattcaa gaagaagtat atctagatta 60
 tcccctagga ttTgaaaact cagacaagcc taatcatgtt tataaaactga aaaaggcttt 120
 atatggtttg aaacaagccc caagggcttg gtatgagcgt ctgagtaaTt ttattttaaa 180
 taaaaaattn tctagaggta aagtggatac cactcttttt ataaagagaa aactaaatga 240
 tattctattg gttcaaatat atgttgatga tattattttt ggatccacta atgagtcatt 300
 atgcaaggaa ttctctcttg acatgcaaag caagtTcgaa atgtcaatga tgggagaatt 360
 gaattacttt cttgngttac aaataaagca aactaaagaa ggaatanttt tcaaccaaga 420
 aaaatact 428

<210> 17098
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17098

tanacattca atttcgagcg tctcgatata ttacgggact ctatcaaaca tacgagaaaa 60
 aagttattgt ggtttgaatt tgctctcagc ttcaacattc aatttcgagc gtcgcgatat 120
 atattacgag actcaatcag acatccgaga aaaaagttat tgtcgtttga attggctcag 180
 aggttcaaca ttcaatttcg agcgtctcgt tatattatgg gactcaataa gacatccgag 240
 taaaaagtta ttgtcgtttg aatgtgtcTca gaggttcaac attcaatttc gagggTctcg 300

atatattatg ggactcaacc agacatccga gtaaaaattt attgtcgttt gaattggctc 360
 ataggttcaa cattcaattt cgagcgtctc gatatattac gggactcaat caggaatccg 420
 agtnaaaagt tatgtcgttt gatttggc 448

<210> 17099
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17099

tatgctgcan atatttataa tagacccctt cagtagcaaa actcaacaac agttttataa 60
 ttatgatctt tcaagcaaca aatacaatcc aggttggagg aatcatccaa atctgagatg 120
 gacaagtcct ccacaaaaac aacaacaacc tgtccctctt ttccagaatg ctgctggtct 180
 aagcaagcca tatgttcctc ctccaatata gcagcagcaa tagcaacagt cacaacaaag 240
 acaacaagca actgaggccc ctctcaacc ttccttagaa gagttagtta ggcaaatgac 300
 catctagaat atgcaatttc agcaaaagat aagagcctcc attcagagtc tgacaaatta 360
 gatggggtag atggctactc agatgaacca agctcagtc taaaattctg acaaattgcc 420
 ttcgcaaact atgcagaatc cgaaaaatgt gagt 454

<210> 17100
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17100

tgcatagcag nttctactac ttaagctgat tacatagttg tatgaagttg ttgtactcaa 60
 agtctttgga tgaagcaaca actcgaagac tttggagtaa accttgatca cattcctcta 120
 aaatgtgaca acacaagtgc taccaatcta acaaataacc cagtcaagca ttctaggact 180
 aaacacatat aaataaggca tcattttctt agagatcatg tgttaaaagg tggctgctgc 240
 attgagttca ttgatagtga gcatcaacta gaagaaattt tcactanatc ttctgctaga 300
 gataagtttt ttattagaaa tgaactatgc atggttagatg catctagcat aaaatgacat 360
 tctgtttgca tagtgtgtga tgcacattgc tactcatatc natttgttt 409

<210> 17101
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17101

nttgcaagct ggaatcattt atcctatctc tgatagccga tgggtgagtc ccgtccaggt 60
 gggtccgaag aagaccggcc tcacagtgat aaaaaacgag aaggaggagc taattcctac 120
 tcgggtgcat aacagttgga gagtctgcat tgattatagg aggctgaacc aggttaccaa 180
 aaaggacat tttccctgc cattcattga ccagatgctt gaacgcctgg caggtaaatc 240
 ccactattgt ttccttgatg gtttttctgg ttatatgcaa attactattg ctctgagga 300
 tcaggaaaag accacattca cctgcccctt cggcactttt gcctatagga ggatgccttt 360
 cggcctgtgc aatgcccctg gtaccttcca gcggtgcatg attagtattt tcagtgattn 420
 ttagaanatg catagagggtg tcatggatga tttcact 457

<210> 17102
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17102

agcttcttat ctaatgctca tcttggtggt gaagcttctt cttccaaggc ttattcccta 60
 atggatggcg catcctctct cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
 gcaagcttcc taagggtgtc ctctcagtt ttagacttgg cgatcatgtc gtctatgtag 240
 acttcgatct ctgggtgcat catgtcgtgg aacacagcca ccatagccca ttgatagggt 300
 gccccgacgt tcttgagccc aaaggacatc accttatagc agaaccttcc ncacagggtg 360
 acgacacatg gtcttttcca tatcctctgg tgccatcttt atctg 405

<210> 17103
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17103

ctcaagcttg ctaacccatg gaagctccta atatctccca cactntnttg ggtgggccat 60
tcttgatgg ccttgattnt ctcaggggtcc acttggtacc catttctacc aactacaaaa 120
cctaagaaaa ctatattatc tacacaaaag gtacacttct ctatatttgc atagaggggtg 180
tttttcctaa ggactgaaag aacttgccctg agatgtccta agtgatcatc taggctccta 240
ctgtacacta aaatatcatc aaaataaaca actacaattc tacctaggaa atcccttaag 300
acatgatgca taagcctcat aaaggtgctt ggtgcattag tgagcccaaa aggcattcact 360
agccattcat acaaaccaaa cttgggtcttg aaagccggtt tccactcatc accntttttc 420
atcctgattt ggtgataacc actnttaaga tcaattnttg aaaagata 468

<210> 17104
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17104

tctaaaggag gtcaacaaca ggatgggtgt aaggaactat ggttgattaa actttctagc 60
aaaataacag tttttgcttg gaggttaata gaagataggc taccaaccaa gatgaattta 120
cataggagac atgtgcaact gcaggatctg cgatgtcctt tctgtaaaga agctgtagag 180
gaggcatctc atttgttctt ccattgcac ttcaccaac caatttggtg ggcattcgatg 240
tcttggtgta actatcatac tgccttttct cttgggccta aacaaaattt tctacagcat 300
atcttcactg aggtaaaagg attaaagatt aagagatgga gatattgggtg gatggcggtc 360
acatgggcta tatggaaact cagaaacaga attctgtttt cgaatgcaga attngatgct 420
aacagattgt ttgatgagg ctgtttct 448

<210> 17105
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17105

tgatgataaa ggtgaaaaat gtatctttct tgggtgttagt gttcagtcaa atttatataa 60

attgtataat cctaccacta aaaagatcat tattagtcgt gatgttgttt tttatgaaga 120
aagattntgg gaaaataaca tagatgaaac aaatcaaatt cttgcaaact ttgatgaaga 180
gttgcagaca aggttgctag aagagcaaca aatttcagca atcacagttg aagatgaaag 240
acctcaacga gcaagaagaa ggcattgcgt gatgtctgat tataaggtaa cagaaattga 300
agatccgatt acttatttttg ctttgttttc atattgtgac cctacaacct ttgaaagtgc 360
tgtcaaagaa gaanaacgga gaaaagcgat ggatgatgaa attgattcca ttaaaagaaa 420
tgataacttng ggattgtgtg atcttccaaa tggacataat at 462

<210> 17106
<211> 449
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17106

actcaagctt atctgctcat acattgcctc ttcttttgaa aaacattnct ctacgagaat 60
ctcatccact atcatctaga gcttggtttc tgaatgacaa gtgataaatg acagtcgaag 120
caactttata aagcatgatt tgaatagaaa agtataaatg tataactaata tataatatta 180
ttatagcgca ttaatatatc taacttataa ccatttattt atctctttta taatatactc 240
tcttctattt tcatttctaa cattaatttt aataaatcgt tctagaaaat ggtaaatatt 300
taattatcgt tatatcatat ttaaattggt catcttcaat tcagaatata atgtatgaat 360
ttagaaatat ttagttatta taataaagat ttaattatat aaaaacaaat atcgctctga 420
agaagcttaa ttcgcatcta tatcctatt 449

<210> 17107
<211> 439
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17107

tgacccttac gagtcagttt agtcaaagt ttagctaact atgagaaacc ttctatgaat 60
ctcangtagt atcctgctaa gcccaaaaat ctctaatct caaaaataga tttaggactc 120
tcccattcaa gaacgacttc tatcttagag ggatctacaa ctataccccc ttgagatatt 180

acatacccta ggaaactaac tttctctaac caaaactcac actntgacaa gttagcataa 240
 agttgtcggt ccctaaggggt atgtagcaca atcctgaagt gttcttcatg ttctctctta 300
 gtcttggagt ataccaaaat atcatctatg aatactacca caaaactatc tangtaaggg 360
 tgaaagactn tattcatgaa gtatataaac acacctggag cattagccac accaaaaagc 420
 atgactagat actcatagt 439

<210> 17108
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17108

tctgggtggga catcttgact tgctttccaa tctgacattc ttcacagatt ctgccttctt 60
 ctattttcag attgggaatg cctctaacag cacctttgtc aataattttc ttcattgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattcttct ttggagaata 180
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
 tgctgccctt cattaggact tcactcttct catttgtcac caagcattct gactttgtga 300
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360
 ccttcaccag cagtactttg ttcagactan gaagtcctc atggactagc tttcccatc 420
 cagtgatc 428

<210> 17109
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17109

tgtatttcag tatcttattg atcagttatg ccaaatgcct gtattggcct tacctgattn 60
 taaaaagact tttctagtgg aggtggatgc ttcaggagtg ggggtcggag ctgttctcat 120
 acaagatcac cattccatag cttttataag tagaagctta aatgttcagc aacaatccat 180
 gtcaacctat aagaaagagt tactagctgt ggtgtttgtt gtacaaaagt agagacatta 240
 cttattacct aagcagtttg taatcaaaac tgatcacaaa agtctcaagt atattcttga 300

ccagagactt tccacagctt tccaacaaaa atggttggtg aaacttatgg aatttgattt 360
cattattgaa tacaagtagg gaagtgagaa ccaagctgct gatgca 406

<210> 17110
<211> 416
<212> DNA
<213> Glycine max

<400> 17110

agcttattta tatcgaggcg ctcgaaattg aacaacggaa gctcttgaga aattcaaattg 60
gtcataactt ttaactcgga tgtccaattc atgcgcatca catatagaga cgctgaaaaa 120
tgaacaacgg aagctctcca gaagttaaaa tggtcataag ttttcacact gatgtccgat 180
tcaggcttat attatatcga gacgctcaaa atttaacatc gaaagctctc gagaaattca 240
aatggtcata acttttctact cggatgtccg attgcagcgc attacatata cagactctcg 300
aaaatgaaca acggaagctc cegagaaact caaatgggtca taacttttta cactgatgtc 360
cgattcaggc ctataatata tcgagagcgc tcaaataata caacggaagc tcttga 416

<210> 17111
<211> 415
<212> DNA
<213> Glycine max

<400> 17111

agcttctggg gggacatctt gactagcttt ccaatctgac attcaccaca aattctgcct 60
tcttctattt tcagataggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac ttttttgag 180
gatagacatg tggaggagta actggtttct tgaggtgtcc ataggtagca gatgtgcttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagttaa cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgagtc 360
agtcccttca ccagcagtac tttgttcaga ctaggaagtc catcatgagc tagct 415

<210> 17112
<211> 396
<212> DNA
<213> Glycine max

<400> 17112

atcttatctg ataaatgtat ttgtatgcat aattaatttc atgcaatata tttatgacta 60
tatattctaa aatataaatt gcattggtaa tatattaaaa tgtagaatgt ttgttttaca 120
tgtcatggaa attatttata actaaattta tactaaattt ttccggcaagt ttttctgaat 180
gcataatatac taacattgtc aatcaaaaat taatctttca tcttggttaa aagtgtata 240
ttaaaaaatat atttatagct aaaaaataac ttgaaagtt tgttggtgtc ttacaaacaa 300
tgctcaaaag aaataaaaac gagagaatga aaataaaatc gaaaatagtg aagggggaat 360
attcatttga tctggaaaat attactacta ctatta 396

<210> 17113

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n-locations

<400> 17113

tctatagaag gttcgttctt aattttctctt tctttggatc ttctctcaat gagctggtga 60
agaagaatgt ggcatttacc tgggggtgaaa aacaagagca agcctttgct tttctcaaag 120
aaaagcttac taaggcacct gttctagctt ttcttgactt ttctaaaact tttgagctag 180
aatgtgatgc ctctggagtg ggagttggag ttgtattggt acaaggtggg caccctattg 240
cttatttttag tgaaaaactt catagtgcc aaccttaacta cccacctat gataaagagc 300
tttatgcctt aataagagcc ctccaaaactt gggaacatta ccttgtttcc aaggaattng 360
tcattcatag tgatcatcaa tcaacttaagt acattagagg gcaaagcaag ttaaacaaga 420
agcatgcaaa atgg 434

<210> 17114

<211> 300

<212> DNA

<213> Glycine max

<400> 17114

tcaaacttgc aacaaaggag ttgagcatgt ataaagattc tttcttcaac ttttagaggt 60
gactttgagc gtctgtttat ggaggagtcc caatcaattt ctgattattt ttctcgagta 120

ttggcccgta tcaattaact taaaagaaat ggtgaagacg tttatgaagt gaaggatcatg 180
 gaaaaaatac ttccaacttt acatccaagt tttgacttca ttgttaccaa cattgatgaa 240
 aacaaggatg taaagaccat gactatcgag caacttatgg gttccttaca agcatatcgaa 300

<210> 17115
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17115

tcaagaaaaa gatggcctca gcaaactcct tatttccaga ttggaattct atcaatagac 60
 ctccaatctt taatggagag gggtaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctanaa gccaaaaaca 300
 taataacatc tgccttagga atggatgaat atttcagagt ttcaaattgc aagagtgccta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420
 nngataatgc actaactcat gagtatgaat tat 453

<210> 17116
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17116

agcttatagc cttttcaaac gacaataact ttttactcgg atgtctgatt gagactcgta 60
 atataacgag atgctcgaag ttgaatgttt aagctttgag ccaattcaaa cgacaataac 120
 tttttactcg gatggttgat tgagtcctgt catatatcga gacactcgaa attgaatgtt 180
 gaagctctga gccaaattcaa acgacaataa ctttttactc ggatgtgtga ttgagtcccg 240
 tcatatatcg agacgtcaa aattgaatgt tgaagctctg agccaattca tacgacaata 300
 actntttact cggatgtctg attgagtccc gtaatataac gagacgctcg aaattgaatg 360
 ttgaacctct gagcacattc aaacgataat at 392

<210> 17117
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17117

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taaacattca acttcgagcg tctcgatata ttacgagtct cattcaaaca tttgagaaaa 60
aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120
atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180
cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240
caaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcggt 300
atatcacggg actcaatcag acatccgagt ataaagttat tgcgtttga atttcctcag 360
agcttcaaca ttcaatnttg agcgtctcga tatacgacgg gactcaatct tacatccgag 420
t 421
  
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<210> 17118
 <211> 410
 <212> DNA
 <213> Glycine max
 <400> 17118

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atctttaaca tagaaaccta gttagattag tgctttgaca ggtttgataa caagaacata 60
tttgtgggtt tgacaagaac tatatacagc tcatgactat tctccaaccg agcaccactt 120
ggaaggggtt tacaccaat gagagtcgag gttgtgttga ttgccaagct tcaacataga 180
aacctagtta gatTTTTTggg ttactgtgtg gaaggagaag aaaaaatgct agtatatgaa 240
tatatgccaa aaaaaagctt ggatgctacc attatTTTTT gtaagactat ttattgcatt 300
tgaaatattt tgtttacgtg cttttttttg tacactcaaa attctatttt gaagtagact 360
aatgtaatgt atcatgcccc taatgaacta caagactgaa agttgtgtgt 410
  
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<210> 17119
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 17119

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caaaagcata caaagcatga taatatgttg gacagagctc ttcatttttt tgcttggtgt 120
aaattaatga aaagttggtg cgttttggta agtggtttatt aactagattt gaaattattt 180
gattntatat atganattga tttttatttan aaatgaaatt aaaataaagt gtcattgttta 240
taaataattca ttntaaagta agttttatatt acaacttaat atgattcttt aacttanaat 300
gaaaatttta tttagagaat aaaatatgga gttatagtca tcgattaana gttataaatt 360
taaattaatt catatattag agagtgtatt gaattgtatc aatattggtc agcggctgan 420
aatgaaaaca 430

<210> 17120

<211> 402

<212> DNA

<213> Glycine max

<400> 17120

agcttttact ctctatgtct ccattatcca gcaatatctt ggctctttta tttggacatt 60
gagaagcaat atgtccaact ccttggcacc tgaaacattt gatattcatgg gatctagaag 120
atgaattaat ttccatttta ccttttaggtg tagcaaatga atttttggac ttagcttcat 180
ctttttgact ttgtcacaga tttgttggtt tgccaatttg acttccacaa agaagtggaa 240
gcaaatttgg aagtactatt agctttgcat tgcctttcca cttgaataga tttgtgcaac 300
aagtcttcca tctccacata atgtacaat tctaccatat tagctatctc tttctttata 360
cctccaatga atctggccat agttgcttca cagtcttctt ca 402

<210> 17121

<211> 443

<212> DNA

<213> Glycine max

<400> 17121

ataagttagt tataccatag tctaaatatt aatatcaatt tatggaaaac taatgatcaa 60
tgttacatgc acaggtataa taaattataa attatgaata tattgaaata ttaatcatcg 120
tgtatgaaat atttactcta atacttatta acatttcttt tcttgggaagc tgcgaagcca 180

ctaagtattt aattttttta taggaattca cttttttaat tttcataata aaaaatgatt 240
 ttaaataaac aagtcatttg tcaaaaatgt tattataagg aaaaatttac tagaaataat 300
 caatcaaaat tactcatcaa tagatacttc attaaattac ttaaaatata acattatagt 360
 gatcataaat taaaaggata taaagcataa atcaactact aaccaaattcc tagaaacact 420
 gcatgtccca gatacaaaaat gat 443

<210> 17122
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17122

agctttaagc aaaatcaatc aacaataaca ttttactctc ctgtccgatt gtctcccgtt 60
 gtatatcgag acgttcgata ttcagaatag aagctctgag caaaatctaa tgacaataac 120
 ttttttctcg gatgtccgat tgtatcccggt agtgtattga gacactcgaa attcagaata 180
 gaagctctga gcaaaaatcaa atgacaataa ctttttactc agatgtccga atgaatcccg 240
 taatatatcg agacgctcga aattcagaat tgaagctctg agcaaaatct aacgacaata 300
 actttntact cagatgtccg attgtgtccc gtagtatatc gagacgcacg aaattcagaa 360
 cagaagctct gagcaaaaatg aaatgacaat aactttttac tcggatgt 408

<210> 17123
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17123

agcttgtgca ttcaatatcc taatgaggggt gttccatatt ctctcaaaac tggactaata 60
 catttactgc ccaagtttca tgatcttgca tgtgaagatc ctcataagca tcttaaggag 120
 ttccatattg tttgttccac catgaaaccc cctgatgtcc aggaagatca tatctttcta 180
 aaggcttttc ctcatctctt ggaggggagt gcaaaagatt ggctatacta ccttgctccc 240
 aggtccattt tcagctggga tgaacttaaa aggggtgttct tggagaaatg tttccttgca 300
 tctaggacca ctgccatcaa aaaagacatt tcatgcatca ngccacttat tggagagagc 360

ttgtatgagt attgngatag attcaagaaa ttgtgtgcaa gctgtcctca ccacc 415

<210> 17124

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17124

tgctgtgttt ttttgattnt agataaaact aattgtgtga aatttatttt gtttgaaact 60

aatttataag tgatatgatt aatgtttaga tattttcatt atgaaactta agagtaaaat 120

ttagtataat ttttatatca aatctaaaaa ctattcaaaa ttatttaaac ccaaaatcaa 180

ttatagatcc aaattcaatt ttcaaactct ctgtatgcat aaaactaaag acaagagtat 240

atctaaaata aattctaaac tcaaaataaa ttcttttaca tcaaactaaa cacatgatga 300

ttntttattt ttagttttga atttataaaa tattaacact aattctaatt ctgaggggtga 360

tgtttcgggt ttaagatatt agatgttgct ttaagttgaà aatagataaa 410

<210> 17125

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17125

agcttaacat cagaccactt ccaggggtgct ggaactactt cacatggact tgatggggcc 60

tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttggtg atgatttctc 120

cagatttacc tngtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180

gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgacca 240

tggcagagag tttgaaaaca gcaagtttac tgaattctgc acatctgaag gcatcactca 300

tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacaggac 360

tttgcaagaa gctgctatgg tcatgcttca tgc 393

<210> 17126

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 17126

tgtangcctt ggatcttggt catcaatgtg tttccattgc ttcttgaagt tcaactggcag 60
cggaatggag aaggaagaaa tatgattgga gatgccactt caaggagaag atgagtcaag 120
cacaagctca ctaccatagg aagccatgga taagagcttg aaggaggaga aaatgagtgg 180
agggagaagg agcatgaaaa ttctgtgect caaatgaggt ctgaactttg aattataatt 240
ctcaaagat ccaaggccta caagctctac atggagctac atcatgtggt atcaaagcat 300
cttctctac gtgatgttct attgcttctt ctatcttttt gtttgggtcaa ttcactttaa 360
ttccttggtt ttctccatgt atctctctca ttgtctctgt gtttgggtgat gtttagagta 420
gattaaaaaa gataac 436

<210> 17127
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17127

agcttttgaa gcactgtagg acaggtgcat gttgctgaat ggaactatgt tttcaattcc 60
ttttagtttc tttttctatc ttttagtaaaa tgtgatttgt tctttgaatt tcttcaacct 120
ttgtccaatg ttcacttgat tctaatttat agaattgagca atttagatgg tattattggt 180
ttgtctgata aagcagaatg ttaaattgcaa ttataagta tatatttatc agtaaattgg 240
cattcattcc tgcaactcaa tacaattaaa cctattgtat ctatgctaaa taagaactta 300
aaatgaacta tataaaatta tttaattgca cgaatganat tatattcatc taagagcttc 360
aattatttga attacgcagc aattntatga acgctgttg 399

<210> 17128
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17128

agctattctt cgtgggttga tgggttctgt ctcatagaat ggcattgatca ctggctgaca 60
tggtctcaat taactcagtt gcttcttctg ggggtcttcag ttttatcttt cccctgcag 120

aagcatctaa caattgcttg gtttatggtc tcaaccatc tataaacata ttaaatacgaa 180
 ttggctcata aaacctatgg gtgtgagttc ttctcaataa acctctgaac ctctccaatg 240
 cttcactcag agattcatca gggaactgat ganatgaaga gattgcagct ttcccttcog 300
 caatcttgga ctctgggaag tatctcttta ggaacctttc aacaacttct tcccatgttt 360
 tcagactgtt acctttaaat aagtgaagcc acct 394

<210> 17129
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 17129

agcttggaca atggttggga aatcttgcta aaatcctaga taaatctctt gtaaaacttg 60
 gatgtcgag aaaagaacgt acttcccgca cagatgcgtc gtaaggaaga gaagtaataa 120
 catcgatctt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180
 tacctccatg gaccataaaa tgacattttt caaagttaag aacaaggta gtctcagcat 240
 cggatcaagaa ctctacagag gttatccaaa catgcatcaa aggaagaacc ataaacaatg 300
 aaatcatcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360
 caccttttga aggtgccagg agcgttgcac 390

<210> 17130
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 17130

agcttgatcc acctgcagtt ggcaaaatag tggcatatgt ggaaaacaat taattaatac 60
 aacttttttg tgcaatggaa atgaaaaaaa taaggatgat atcttgtaaa tggaaacttg 120
 gggattgttt ggttggacca atttatgcag atacatatac attggaattt atttttctga 180
 ggttaatttc agtcatgacc tcttgggaagt aattatgtct ttgcttctt tggatatttt 240
 gtggttccca ttcctaattc attttttaat atctgccaca ggtcaaaat cagagttttg 300
 atcttcctat taagaaaagg agtgacatct gtacaataat gtatactagt ggaactactg 360
 gtgaccccaa tggagtgttg atatcaaag agagtattat tactctctta g 411

<210> 17131
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17131

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 cgtctcaaag cacctttact ccttctccat tccactgcca ttgatcttca agaagcaaag 120
 gactccattt atgaagaaga tccaaggcct acaagctcta catggaacta cattataaat 180
 ggagaatgtg tacagattgt agggctatca acaacataac tgtgaagtat aggcacccca 240
 tttctaggct tgatgatatg cttgatgagt tgcattgtgca aacatatttt ccaaaattga 300
 tgttaaaagt ggttatcacc aaatagggat tagagaaggat gatgaatgga aaaccgcttt 360
 caagaccaag tttgggttgt atgagttgct agtgaatgcc tttgngctca ctaatgcacc 420
 aaacaccttc atgaggctaa tgaat 445

<210> 17132
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17132

agcttgtaat cgattacaca tatactgtaa tggattacct gaggagattt tcagaaaata 60
 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gcgaagaggt tttcaaaaca aaaaagtctt atcctcttat 180
 aaagcaaaat tgttttatcc tcttaciaat tcttggcca aattacttgt gattcaataa 240
 ggaatttttg agtgctcaaa ttgttcaatc tatctctttc aagagagatt tcttcttttc 300
 ttcttcttca ttctgaaaag ggattaagag accgatgggc tcttggtgtg aaagacatct 360
 aaacacaaag tgatgtgaac cttacngtgc accgatcgct tgataca 407

<210> 17133
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17133

agctntggag tttccaagtg ccaattcgtc ttcttcctta gtccagtctt cttctggctt 60
caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caggttctgc tatccagtga tttgaggaag gccaccatcc ttgctttcca 180
gtatccatag ttggttccat ccagaatagg tggctctgtc actggctctc cttctttctc 240
catgttcac cagaatttatc tccctagatc tcaactcagt atttcgagt ttggctctga 300
taccaattga aattctgata ctggngacag atgtcgtaca ggatgtcacg acatcacgct 360
tcagaacatg cagattgtat ttgacagtgt gcacagtta agcaagt 407

<210> 17134
<211> 407
<212> DNA
<213> Glycine max
<400> 17134

agcttctcca tgcaaacttc attaaagagg tcaggttttg tacttggctt gccaatgccg 60
tcatggtcaa aaaggccaac ggcaaatggc gaatgtgcac cgactacact aatctgaaca 120
gggcataccc caaagacgtg taccctctcc ccagcatcaa taggttggtc gatgaagcgt 180
acgaattcca ggtgctaacc ttcttggatg cctacttcgg atacaactag attagaatgc 240
atcctctaga tgaggagaaa atgaaattca taactaaaaa tgtcaacttt tgttacaagg 300
tcataccatt cggcctagaa aatgcaagcg cgacattcca atgaccaatg gaccgagtct 360
tcatacaaca gatcggacga aatgtcatgg tatatatgga tgacatg 407

<210> 17135
<211> 379
<212> DNA
<213> Glycine max
<400> 17135

agcttctcaa tagagttagg caggtaactc tgtaataagt cttaaactct atccctacat 60
acattatgca aaatatgcag ttgccctccc tgtagagctt gtaggccttg gatcttcttc 120
atcaatggag tcctttgctt cttgaagatc aatggtagta gaatagagaa ggaggaaagg 180

tgattggaga tgccacttca aggagaagat gagtcaagaa caagttgacc accataagaa 240
gccatggata agagcttgaa gatagaataa gatgagtgga gggagaggga gatgatgggc 300
acgaaatcta tttctcacat gaggtctgaa atttgaagtg taatttctca aattatcaaa 360
gctgaataat atgcacaca 379

<210> 17136
<211> 398
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17136

agcttcacag tttatnttt tcaaacttga gttttggaag accaattact aagtctttcc 60
taactagatg atataaatga tggatgttaa tgtgttcaac cctacaatgc cacaaccatg 120
aatcatcatc tatcttactc accaagcaac ttagctcatg aaaagatgca tgctcaacat 180
tcagcatata aatattacct attctcttac caatgtggac aactttacca gatatggctt 240
cacttataag atagcaatct ctgtcaaact caatcttgaa acctttatcg caaagttgac 300
taatgttttag aagggttatgc tttagtgcac ccatatgtag cacattcttt atctgagttt 360
tgtgttaatt ccctatatct ccttccccag ttattttt 398

<210> 17137
<211> 452
<212> DNA
<213> Glycine max
<400> 17137

gcttcatgat gatgaatcaa gttgattcaa gtagttttga tgattacaaa gatgatgaca 60
aaaagcccaa gagaatgatt tcaagattga ctcaacaagt ttcaagaatc aagagaagtt 120
tgatttcaag attcaagaga agatgaattc aagattcaag agaagaaatc aagaagactt 180
cacaagggaa gtattgaaaa gatttttcaa aaaacaaaca tagcacagtt ttttttttca 240
aaacagtttt tctcaaaatt ttctaagcta ccagagtttt tactctctgg taatcgatta 300
ctagtttctt gtaatcgatt accagtggca aagtttgatt tcaaaagttt tcaactgaat 360
ttgcaatggt ccaattaatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcgat 420
tactagtata tctgaacatt ggaattcaaa tt 452

<210> 17138
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17138

ctcaagcttg gatttccttt gctctggaaa cctctccttt cttatgtgaa cccaaaccca 60
 tctctccaga ttggaaaata acctttttgt gccccttggt tgcttggtta acataactct 120
 cattcttctt ttcaatttgg gccttgacta tttcatggag ctttttcaca tagtccactt 180
 tggcttcctt ccttatgctt aaaaactgaa atattagaca ttggtaacaa atcaagagga 240
 gttagtggat tgaaaccata agcaacctca aaaggagaac aactagtggg gctatgcaca 300
 accctattat gagcaaattc aatgtgaggt aagcaaactt cccaattttt aagattcttt 360
 ntcaaaatgg tccttagcaa ggtacccaaa gtccatttca cgacctccgt ttgtccatcc 420
 cgttgagggt gacaagtagt a 441

<210> 17139
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17139

tgcccagaga aggagtccac ggaggaaatg cttaccacct tttaagactg gaaagcgggt 60
 tctaatgact cctctgcggc ctccacataa ggcatagagg acgggcagct caccaagatg 120
 tcttcttcgc ctgatacgat gaccagatgc ccttccacta cgaatttcaa cttttgggtg 180
 agtgtagagg gaacaacccc cactgagtgg atccatgggc gcccacacag atagttagtag 240
 gggggggtga tatccattat ttggaagggtg acttgacagg tgtgagggcc tatctgtact 300
 gggagatcga tctctccctt aacctctcgg tgggtgccgt cgaaggcacg aaccaccatt 360
 gaccttggct ntaagtagga ggcattgaat ggtaatttct ccaaagtgtc cttatgcac 420
 acattcaaac tggaaccatt atcgat 446

<210> 17140
 <211> 405

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17140

agcttggatt tcctttgctc cggaadacctc tcctttctca tgtgaacca aacccaatct 60
ccaggttgga aaacaacctt tttgtgcccc ttgtttgctt gtttagcata gctctcattc 120
ctcttttcaa tttgggcctt gactctttca tggagctttt tcacatagtc tgttttggct 180
tgtecttcct tatgcttaaa aactgaaata ttacgcattg gaaacaaatc aagaggagtt 240
agtggattga aaccataaac aacctcaaaa ggagaacaac tagtgggtgct atgcaccgcc 300
ctattataag caaattcaat gtgaggttaag caaacttccc aattnttaag attctttttc 360
aaaacgggtcc ttagcatggt acccaaagtc ctattcacga cctcc 405

<210> 17141
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17141

tatatatnca atagtattta tatgggtctat ntatgtatat gtgntatatt tgataaatga 60
atagtttgag gtagtataag ataacaattt tgtatagttt agtttgaatt gttaatgtta 120
tatatgccag attatntttt gataaatgaa tagttttagg tagtataaga taataattct 180
gtgtaattta ttttgaattg ttaatgttat atatgccaga ttatattttg ataaatgaat 240
agttntaggt agtataagat aataattncg tatagtttag tctgaattat taatgttata 300
tggtagatat gatatacggg tatatgataa attagtgtcg caacctacc 349

<210> 17142
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17142

tgatgatgaa ccaagcaatt ntgatgatgc caaaagccca tgtgattgat tcaagacttc 60
aagatcaagc atcaagaatc caatccaaga ttcaagagaa gaaatcaaga cgcaacatgt 120

caagacttca tataggataa gtattaaaag aattttttcaa aaaccaaata gcacagtttt 180
 gttttacaaa agaattttct caaaattntc taagctacca gaggattac tctctagtaa 240
 tcgattacta gttatcagta atcgattacc agtgaccggt ttggttntca aaatgttttc 300
 aaatgattta taatgttcca aaatgattnt caagtagtgt aatcgattac actgtattag 360
 taatcaatt 369

<210> 17143
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17143

agcttgtatc ggacatctgt gtgaaaagnt atgaccattg gaatttttta tgagcttcca 60
 ttnttaaatt tcgagcctct caacatatta tgcgcccga tgggacatcc gtgtgaaaag 120
 tcatgatcat tngaatttct cgagagtttc cgatgtttta tttcgagcgt attgatatat 180
 tataaccctg aatcggaact cagtgtgaca agttatgacc atttgaattt gacgagagct 240
 tccgttggtc aatttcgaat atcaactatat gtgatgcgcc taaattggac atccgtgtga 300
 aaagttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360
 acgtgattng catgaatcgg acatccgtgt gaaaagttat gaccatttga at 412

<210> 17144
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 17144

ttcgttttct tctattgtcc agtcttcttc tgggttcaat tcattagtgg gctgtccttc 60
 tgtgtccaac atcttgggat gttcccagcc tttgatgaca gctatccacg ttctgctatc 120
 cagtgattcg aagaaggcca ccatccttgc tttccaggat tcatagatgg ttccatccag 180
 aatgggaggt ctgtacacta ggctccttc tttctccatg ttcacagaa ttcactctcc 240
 tagatctcac tcagagattt ccagtgcctg ctctgatacc aattgaaatt ctgataccaa 300
 tgccagatgt cccacaagat gtcacgacat cacgcttcag aacatgcaga ttatatttga 360
 gagtatgaac a 371

<210> 17145
 <211> 406
 <212> DNA
 <213> Glycine max

<223> -- unsure at all n locations
 <400> 17145

agctttttcca ttttttgcct gatgcctgaa atgtcttttt tgatgttagt ggnccatgat 60
 gcacggaaga atttctccaa gaacaccctc ttaaggatcat cccagctgaa aatagacctg 120
 agagcaaggc agtataacca atcttttggc actccctcca gagaatgagg aaaagccttt 180
 tgaaagatat gatcttcttg gacatcaggg ggcttgatgg tgaaacaaac aatatggaac 240
 tccttaagat gcttataagg atcttcacct gcaagaccat gaaacttggg cagcanatgt 300
 attagtccag tcttgagaac atatggaaca cccttatcag gatattgaat gcataagctn 360
 tcataagtga aatcaagtgc agccatctcc ctaagagtcc tatcac 406

<210> 17146
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17146

gaagctagat cttagctaca catacctctc taatatgctt atctcacctc cttgagatga 60
 gaagctagag cttagctaca caccctata atagctaagc tcaccccat gacaaaatac 120
 atgaaaatac aaaaaaaaaag tccctactac aaagactact caaatgcct canaatacaa 180
 ggctaaaacc ctataatact tgaatggcca aaatacaagg cctaaacgaa ggaaaaaacc 240
 tattctaata ttacaaaaga taagcgggct catacttagc ccatggactc aaaacctacc 300
 ctaaggctca tgagaaccct atggccttcc cttggatctc tggcccaatc tacttgagat 360
 cttctatcca atgcccttgg agggtaggat tgcacacac atcac 405

<210> 17147
 <211> 208
 <212> DNA
 <213> Glycine max

<400> 17147

ttcttgttgc cttggatctt cttcatcaat ggagtcattt gattcttgaa gatcaatggc 60
aacagaatgg agaaggagga aagggtgattg gaaacgccac ttcaaggaga agatgagtca 120
agaacaagct caccatcata ggaagtcattg gataagagtt tgaaggtagg agaaaatgag 180
tggatggaga gagagagggg gggggggg 208

<210> 17148
<211> 371
<212> DNA
<213> Glycine max

<400> 17148

tttctttttt gttcaattat gagtgggtcg atatatgatg cgcctgaatc ggacatccga 60
gtgaaagggt atgaccattt caattttctcg agagcttccg ttgttcaatt tcgagcgtct 120
cgatatgtga tgtccctgaa tcggacctcc gtgtgataac ttatgaccat ttgaatgtct 180
cgagagcttc cgctgggtcaa tttcgagcat ctcaatatat gatgtgcctg aatcaaacaat 240
ctgagagaaa agtatgacaa tctcaatttc tcaagagctt ccgttgttca attccgagcg 300
tctcgatatg tgggtgtgcct gaattctgata tccgagtgat aagttatgac aattttaatt 360
tctccagagc t 371

<210> 17149
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17149

ntcgagaatn taaaattgtc ataacttttc tctctgatgt ccgattcatg cacatcagat 60
atctagacgc tcgagattga acaatggaag ctctcgagaa tttaaaattg tcataacttt 120
tcaactcggat gtccgattca ggaacatcag atatctagac gctcgaaatt aaacaacgga 180
acctctcgag aaattcaatt ggtcataact nttcactcgt atgtccgatt caggcgcata 240
atatattgag aagctcgaaa ttgaacaacg gaagctctcg agaaatttaa atgatcataa 300
catttcactc ggatgtccaa ttcaggcgca tcatatatcg agacgctcgt aattgaacaa 360
tggaagctct ggagaattta aattgtcata acttttcaat cggatgtccg attc 414

<210> 17150
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17150

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 agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggct agttactcaa aggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggg ttgactaatg 300
 atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatntg cttcaciaag 360
 caatccaagt ggagcaacaa tt 382

<210> 17151
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17151

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 ttccgttgtt caatttcgag cttctcgaca tattatgac cgaatcgga tacccttgtg 120
 aaaagttatg actatttgaa ttttccgaga atttccgatg ttttaatttcg agcgtatcga 180
 tatattataa gcttgaatcg gacatccgtg tgaaaattta tgaccatttg aattttctcaa 240
 gagcttccgt tgttcaattt cgagcttctc gatatgtgat ttgcttgaat cggacatccg 300
 cgtgaaaagt tataactaatt gaatttcgca agagcttccg ttgttcaatt ttgagcgtct 360
 cgatatgtga attgcctgaa tcggacatgc gtgtgaaaag tata 404

<210> 17152
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 17152

ttcttgtttt attttaaaac caaggccacc atcttttgtg caatttgatt gcatgttgac 60
 tttggttagca tgaaacatct catcacataa gaaggaatag cttgcaccac tgactttatt 120
 aggccactca tcctgtcttt gaaaacgtct tctccttcca acctttcagc ttcttcqaaa 180
 ctctatctct agcaaaaatta aacacttgag tctttgatct ccccaaatg gttggaagac 240
 ccaaataatt tacatgtctc tccactgcct ttaccccata acttatcaag ttcacatcaatt 300
 ctggtactag aacacatttg gatacaagag agctaagatt tctctagatt gatcc 355

<210> 17153
 <211> 426
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17153

tataactcnct ccattcccata ataatagtcg tgtaagaaaa taattattgt cccaaaataa 60
 ttgtcattnt agctcttcaa tataatatta attgtttttt ttcacttata tcccttataa 120
 tattaatgat atggactaca aaaactaaaa atgaattaat gatgataagg ttaattttgt 180
 aaaattatta ttctttttca tttgtcttatt agttcttctt ggtctgagta aacaaactgg 240
 tatgggacga caattataat gagatgaagg gagtataaac tctcatccgt ggtgcataca 300
 gacacacaat ttcagttcaa tgcctttgtt tctcttttct taagatggta ttggagccta 360
 tcctaaatct attaccgata acctaccata ttatccatgc accanacca aaaagtactg 420
 ggcgtg 426

<210> 17154
 <211> 481
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17154

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 aatataatac tactatacga ctattaaagg agtgtgtgta agaaaataaa taaattaatg 120
 tgcacaagag ttgaacacaa gatgttttta ttgagggtat tcaactttac tagttgactn 180
 taatcgatcat tgttgccttg tttagagtta gatgcttatg tgaggaaatg ggagatattt 240

tattttattta atttaagata aagtctttcc gttgtttact cttgaatctt gatcaatgat 300
aaagaacaaa tttggaaatt cgaagaanaa gtaccaaaaa cacctttntt tcgtgtattg 360
gattatgatt taaaaaaatc tggtaatata atgtaatatt taattaagaa ttttaggaat 420
ttttttanaa agttaacaaa atgaatttnt ataactntaa aaaaatcttt agataatfaaa 480

a

481

<210> 17155
<211> 369
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17155

attgncttat catatgaaaa ttatatagtg attacattnt acacatatat actataataa 60
tgagtatant tttaaaaata aagaatctag gttcatgaat cgcaaacaga ttcctaaagt 120
ataacttaagt aaatatatat catatacaaaa attataatct aaaatgagtt gtcgtagttg 180
tatcattaaa taaatttata aatttatact acaaatcagg atcttatcta tatattccaa 240
acatgaatga atatacacta attatattga aaatgcaaac tacaaggcat tcaaagcaca 300
aattaattca atattttatat cacaatacac caaaattcaa caaaaaatta ctgcataata 360
atttcaata 369

<210> 17156
<211> 395
<212> DNA
<213> Glycine max
<400> 17156

catgaaaaga cctatgccct ttcttttaac ttctccaaat ggggagtctc aacagccttt 60
tgctttcccg gagagtagta gagtcactct gaccttcctt ctctggcac ataatccttg 120
ggcttgtagc ctcatcacca ctcttgggga gtggacctga gcaaatatca atctttccct 180
tgctgagaa tctcatgga taccaagctc taagttotta gagaaagcct catagaactt 240
ggttgaatcc tcttgggtct ctgtcattac atagaacagc tcaatgcact tcttgaccaa 300
gctcttacgg atgaccttca agatcttgat ctggtgcaac atttcatctt gaaatgctga 360
gtgggagatc ttcagaatca acaatacccc ttgac 395

<210> 17157
 <211> 403
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17157

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ttcngttata tttttgaagt caaaatgcaa ttccaaagca gtatcattta aaatatttaa 60
caaaaaatat tattaaatga gctaattaag atattaatat aaaataataa tgaaaaaatc 120
ttgcttttcta attttacgac aatttaaaaa attataataa gtaaaatata agtcgcatat 180
ataatttaat aaactattaa tttggccttt ntaaataattt atttgacatt gattntgctt 240
ttaatttttta gtgagatgga gtgagtccttt taaacattga aaagtattaa aatctttttg 300
tgatatggag taagtctttt attntaatta tgtaagtttg ctccttacat ataatagaaa 360
tggtttttct catatatttt ttttatgaaa tgcgagatga gtg 403

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<210> 17158
 <211> 366
 <212> DNA
 <213> Glycine max

 <400> 17158

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tatataacac tcaagcttgt gggaagacac tgatcgaatc atcatcatca ccactcttga 60
tacagctctc tctagacgcg tactttgcac gcttccttcc gcacagctat tcttgactg 120
cggtcgttgg ctctctatgc tctcgggttg ctctctcttc tttacctctt acggtgcttg 180
atataacttaa agatggtaaa ggcggagttc ttgcatcccg tatgggttaa ctacctattc 240
gctccgtgga tatcgtggat tctattgctt caatcggagc cattcgtggc gccaaacaaca 300
gcaacctact tggttctgtg gaggggtgtc acggtgccgg tggtagtgtt ggacgtgaag 360
atctac 366

```

<210> 17159
 <211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17159

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 tttaaatacaa gcaagcggac gaaggaatat gcatacatca aaccatgtag tgaaaaaact 120
 tctgaagaag ttcaaggtgg acgatgcaaa gcatatgaaa acccccatgc atccaacat 180
 tgtacttggga ctggatgatg aatcaacgaa ggtggatgaa aatacatgca gaggaaatat 240
 gatattctctt ttgcatctca ctgcgtccag ccttaacatt atgttcagtg tatgtctcta 300
 tgtttagattc caaaaggaac caaggaaaat tcatttatat gatgttaaac gcatatttag 360
 atatttgatt gaaacttcta accttgggtct ttgctttaag agagaaatcg aatac 415

<210> 17160
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17160

ctntanatga gcttcacctt tctcgcgact atcatgttgt ctgtctcgtg tgcttttagt 60
 ttatcctana tttatcaacg attagtcaac acaaagttac catctcaact tcaaaatatt 120
 ttctgcttta aaaacacatc aaaatatatg ctactttaga aaatcaagat caattatatt 180
 ttttttaata atatttttgt ttattttctt agtatagact atatatatct ttaatcagaa 240
 cattatgaag tatggaggat aaaatttttag ctntgaatct ttaacacatt tacatatcca 300
 aaaatatatt cattattgggt atcttatgtg aaatatnta ttaatttaca atattatact 360
 gtaactcctt taatgaaaat attntaataa aagaacatga gaccagctta ttaaaaatta 420
 aaaaatggaa acttatcaca cttaccaag ctagtcaaaa caaatatta 469

<210> 17161
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17161

agcttgtatc gttcattcgt gtgaaaagtt atgaccattt gaatttctca agagcttccg 60
 ttgttcaatt tcgatcctct cgacatatta tgcacccgaa tcggacatct gtgtgaaaag 120
 tcatgatcat ttgaatttct cgagagtttc cgatgtttta tttcgagcgt atcgatatat 180

tataaccctg aatcggacct cagtctgaaa agttatgacc atttgaatth gacgagagct 240
 tccgttggtc aatttcgaat atcactgtat gtgatgcgcc taaattggac attcgagtta 300
 aatgttatga ccatttgaat ttctcaagag cttccgttgt tcaattctga gcgtctcgat 360
 atgtgattcg cctgaatcgg acatnccgtg tgaaaagtat aaccattnga atttctc 417

<210> 17162
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17162

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 aatgtatgta tacatgattt tgatgatgtc aaagaagaat ctaacaaggc tacttcaaatt 120
 gataagcatt tgcttcaaga ataattcaag attgcttcaa caaacaattc cttgtttcaa 180
 gattcactaa agaccaagcc ttgccttaaa acaaagtgtt ttcaagacat gcaaggctct 240
 ggtaatcgat taccaggaag tgtaatcgat taccgaaga cagggttgag aaatagctgt 300
 tgaaaaagggt tttgaatttg aattntcaac atgtaatcga ttaccatattg tctgtaatcg 360
 attaccagca acgaaacttt ggaaattcan attcaaaagt cattaaccct tc 412

<210> 17163
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17163

ctaattntaa tatgatacat tattgaaagt tttagctntt aaatagtcatt tattataatt 60
 attgttttat ataataatgt aaaactataa taaacagaac ttggattata attttttaca 120
 tctacagtaa attctatttg taataattca tacacatata caagttaatt taaaccatta 180
 ttgagatatg gttttttat tacctaaccg gcactagggt atacgagagc atcattctcc 240
 caactcattg tgcaagttaa tcaatttcct ggtttttaac aaagattcaa tgaaaatgat 300
 ccatcatgaa aaagttcata tttaaaaatg aaccaaccgt attttcacaa atgagaaatc 360
 tactaaagtt ttgaattaac catcaacatt gtaaaaaactc aaatntgatn tngngctgcta 420

ggatgctcac cgaacttata ttagccatca t

451

<210> 17164
<211> 390
<212> DNA
<213> Glycine max

<400> 17164

agcttggaca atggcagtga aatcttgcta aaatcctaga taaatctctt gtaaaacttg 60
gatgtcgcag aaaagaacgt acttcccgcga cagatgcgtc gtaaggaaga gaagtaataa 120
catcgatctt tgccttatcg acctcaatac ctctactaga gactgaatgc cctaagacta 180
tacctccatg gaccataaaa tgacatTTTTT caaagttaag aacaaggta gtctcagcat 240
cgggtcaagaa ctctacagag gttatccaaa catgcatcaa aggaagaacc ataaacaatg 300
aaatcatcca taaacacctt catacaactc tataataaat cagaaaagat actcaccatg 360
cacctttgga aggtgccagg agcgttgcac 390

<210> 17165
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17165

agcttcttat cctaggctca tcttgggtggg gaagctcctt cttccatggc ttactcccta 60
gtggatggcg tctcctctca cttcttctcc tttgtcttcc gctgcatctc catggtgtaa 120
aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agtccacaa 180
gcaagcttcc atcactgagg acatggaaag gatgatgttc gtcacccttt ggggaatgtt 240
ctgctacaag gtgatgtcct tttggcttaa gaacgctggg gcaacctacc aacaggctat 300
ggtagcatta ttccatgata tgatgcacan aagaaatgaa gtctacgtgg atgacatgat 360
taccaagtct aaacccgagg agaaacatct catcaactt 399

<210> 17166
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 17166

tatacctgat gagaataact taattgataa tatatacggt tattttgtag ataagatctg 60
 gatttgatta tcacataata tatgtttaga acagtaatag attttaagtg tgattaaatc 120
 tttaaatttta aatgtaagat tagtcttata actaccacaa gaatctaaaa tttgtgaaga 180
 tcctttggag toctactcta tgagctgtga actcaatggt tagattacag attcattata 240
 ttgcgaatat tcatgtttgt tgatgggtcta caactgtacc tacatatgag gaaaataaat 300
 tagagatntc tttatctttc ctactcttat gaaatagatc ctttatataa tatgagacac 360
 ctaagtacat tatcatatctt ttctctcata ttattcccag 400

<210> 17167
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 17167
 catgcaacaa ttgttagccg tggctatacg agacatcttg ccaaacaag tcaggttcac 60
 cataactcgc atgtgctttt tcttccatgc tatatgtagc aaagtgattg atccagtaat 120
 gtttgatgag ttggaaaatg aggccgcaat tatactgtgc cagttggaga tgtattttcc 180
 ccctgctttc tttgacatca tgattcactt gattgtgcat ctggtcagag aaatcaaag 240
 ttgtggctct gtttatctac ggtggatgta cccggttgag cgatacatga agatcttaaa 300
 agggatataca aagaatctat atcgtccgga agcatctatt gttgagaggt acatt 355

<210> 17168
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17168

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 ggtggtaatg acggaccgag gcataaccgg gttgaggag taaagctcaa tgttcctccc 120
 ttcaaaggta gaagtgatcc agatgcctac ctggactggg aaatgaagac tgagcacgta 180
 tttgcttgcg atgactacac tgatgcgcaa aaagtcaagc tagcagcagt tgaattctcc 240

gactatgccc ttgtttggtg gcataaatac tagagagaaa tgttgagaga ggaacggcga 300
gaggttgata catggactga gatgaaaagg gtgatgagaa aaaggatatgt gccactanc 360
tataacagaa ccatgcgaca gaaactccaa gggctgtccc aagggaattt aaccatggaa 420
gaatattata aagagatgga aatggcggtta gtgagggtca acat 464

<210> 17169
<211> 411
<212> DNA
<213> Glycine max

<400> 17169

agcttagtaa agttaagcac taacaatctc cccctttggg aaattttgtc taaaacatac 60
ttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120
cagagtaatc aagcacagcg gaaattctgc atgttgcaag tcgtttccag gatgtcaaga 180
catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct tactgcagca 240
tcttctaaca gctactagtc ttttccagga tgtcaagaca tctcatgtga catcagctgc 300
tccccctgtc tccatgctct tactgttgca tcttttatca gctactagta gcttacacca 360
gtcatcatca gcagcagcag tctccccctc aaatcatata catacaactc c 411

<210> 17170
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17170

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nggggtggtaa ggtgtggaaa ttctgtgcac gacccatac ttnttgagca aggcatacat 120
ggatctatta caaaaatggg tgccttgatc actaacgatg gctctagaga ctccaaacct 180
gcaaaacata ttagatctaa caaaatccac aacaacctta gcacgttag ttctggtggc 240
tntaacttcc actcactttg aaacataatg aacaacaagg agaataaaa caaaaccaa 300
agagacaggg aaaggcccca taaagtctat acccaaacat caaacacctc acagaacaac 360
atgggttggt gaggcatttg ttgtctccat gaaagtgagc cgctgtctct ctgacaaggc 420
tcacaagtgc tacagattct ccacgcatcc ttgaagatgg tgggccaata gaaaccacag 480

tcaagcact

489

<210> 17171
<211> 418
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17171

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tatcagaggg actgatggtc actatgaatg acaaatctct tgagataaag gtagtggtgc 120
catgtattca aagcccgtag taatgcatac aactccttat cataagttga atagttaatg 180
gtaggaccac ttaactnttc actaaaataa gcaattggat ggcctttttg catcaacaca 240
gcccgaatcc caacatttga agcatcacac tcaatttcaa aagatttttg aatgtttggc 300
aacgcaagta tggnggcatt agctagctct tgctaagatc attgaaagct cttcttggtt 360
ctctcgccat atgaaccaac atttttttga cacttcatta gaggtgctgc aatgtgct 418

<210> 17172
<211> 444
<212> DNA
<213> Glycine max
<400> 17172

tgatatttgt gccatagtag gccagatatt gattatggta tgggttttgt aagcagatat 60
atgaatgata taaggacttc tcatatgggt gcagtaaaga gaattttgag atatgtgaaa 120
ggcacacttg attatggctt cttattctcc aaagcaaata ataataagg aataaggtta 180
attggttttt ctaatgcaga ctatagtggg gatgtagagg acagcaaaag caccactaga 240
tatgtcttca aattacttgg atcaacaata tgcttgagtt ctaagaagca agaagatgtt 300
agactttcaa cttgtgagtt agagtacatg gctattgtct cagcagcttg tcaatcagcc 360
ttgttgaggt ccctgttgta gaattgaata ttcagcttga ttcagttgtt caacttaata 420
tggacaacaa gtctgctata tgct 444

<210> 17173
<211> 411
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17173

ttcttgtatc atataaagtg gatccgagga actctcaagg acttggtcaa gatgtctata 60
agctgggttg tggagttaat aaatttagta ctaatttctt tggactgcag ctttttccga 120
acaaaatgac aatcaatctc tatatgtttt gttcttttgt gaaatacagg attagaggtg 180
atgtgaagag ctgcctgatt atcacaatac aactttattt gctgaacatc acanaatttt 240
aattattgaa gttgtttaat ccacaacaat tcacaagtaa caagagccat agctctatat 300
tctgctnttg cacttgatca agcaaaaaca ctctgtttct tgctttttca agagacaata 360
tttcttccaa aggatacacc atatccagtg gtggatcgcc tgtctatggg a 411

<210> 17174

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17174

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tgcccaagaa acctcgaacc tgcttctccg tgcgtgggtc cggcatttca ataatggcct 120
tcattttctc gggatctatc gctatccctt tctgacttac gataaatccc agcaacttcc 180
ccgactttac cccgaaggta cacttggttg ggtttagctt cagttggtat ttccgcaacc 240
ttctgaacag cttacgcaga ttgacgaggt gttcgtcttc agtctgagat ttggcaatca 300
tgtcatctac gtagacctct atttcttat gcatcatgtc atggaacaac gccaccatgg 360
cacgctgata ggttgcccca gcatttttca gcccgaaatgc catcacttta tatcagaacg 420
tcccccatag ggtgacgaaa gtggtcttct ctacatctt 459

<210> 17175

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17175

ttcttgatgg attacttgat gccttgggtc acctagtaac tcagcttgac atgaatcaga 60

aatatgcatc tgcacctggt gcaagagtct gtggtctgtg ttattctgta gatcaccata 120
cagatttcat ccttctttgc agcaatatgg agtcaatgag caacctgaag cttatgctgc 180
aaacatttat aatagacctc ctcaacagca aaaccaacaa tggcaaaata attatgagct 240
ttcgagcaat agatacaatc cagggttgag gaatcatcca aatctgagat ggacaagtc 300
tccacaacaa caacagcctg tccctccttt ccagaatcct gctggtccaa gcaagccata 360
tgttcctcct ccaatacagc agtagtcaca acanagacaa caagcaactg 410

<210> 17176
<211> 398
<212> DNA
<213> Glycine max

<400> 17176

ttcttgtgac atgaggccat taagtgcctc tgccacaatg ttataaagaa gaggtgatag 60
agggtctcct tgccttagtc cttcttgagg taggaactca gctgaggagac taccattcac 120
caaaaatgaa acagatgctg attttagaca cccctcaatc cattgaattc atttgctgca 180
aaagcccatc ctacccatca tataagtgag aaactcccaa gacacaaaat catatgcctt 240
ttcataatca accttgaaga caatgcaagg cttttggcat cttttggcct cttcaactac 300
ctcatttgta gtcaccacgc tgtgtagcat atgtcttctt tctataaatg ctgattgcct 360
ctcatgaata ataaaaggca tgaccttctt caatctat 398

<210> 17177
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17177

agcttcttat cctaggctca tcttggtggt gaagcttctt cttccaaggc ttattcccta 60
gtggatggcg catcctctct cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagcttcc taagggtgtc ctctcagtt ttagacttgg cgatcatgtc gtctatgtag 240
acttcgatct ctgggtgcat catgtcgtgg aacaaagcca ccatagccca ttgataggtt 300

gccccgacgt tcttgagccc aaaggacatc accttatagc agaaccttcc ccacaggggtg 360
 acgacacatg gtctnttcca tatectctgg tgccatcttt atctg 405

<210> 17178
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17178

tgctaacca tggaagctcc taatatctcc cacactntnn tgggtggtct cattcttgga 60
 tggccttgat tntctcaggg tccacttgga cccatttct accaactaca aaacctaaga 120
 aaactatatt atctacacaa aaggtagact tctctatatt tgcatagagg gtgtttttcc 180
 taaggactga aagaacttgc ctgagatgac ctaagtgatc atctaggctc ctactgtaca 240
 ctaaaatata atcaaaataa acaactacaa ttctacctag gaaatccctt aagacatgat 300
 gcatâagcct cataaagggtg cttggtgcat tagtgagccc aaaaggcatc actagccatt 360
 catacaaacc aaacttggtc ttgaaagcgg ttntccactc atcacccttt ttcacccctga 420
 tttggtgata accactttta agaatcaatt ttgaaaagat attggcacca tgcaactcat 480
 ca 482

<210> 17179
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17179

agctnttatt tcaataaata agtttaaata agttggccca taatcaatat aaagtaatgg 60
 aaaaaaaaca taatcaaaca tctatttgtc tttatcaagt ctatttcaag tctagtatta 120
 aaattgaata ttttttttta tataatgtta ctctgtaata atttttatat gcatttatta 180
 tcaaaattaa aattcattnt aaatgtattg aaatagagta attntaatta aacatataca 240
 atttttaatt attttaaaac aatattttta atgattntaa agatattaat tntcattatg 300
 tgataatatt aaagattaat ctcatcgat aataaataaa acactntcat ttagtataat 360
 taaaattata tattattatc attattatta tcaccattaa aattataaaa cactt 415

<210> 17180
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17180

tagtagggaa tctatccttc ctaagatgga gttctttcca gtcactgtcg ttaagaacta 60
 gctcttttct tctctattg ccttttagttg aatacacctt tgtgtgggtc tctatttggg 120
 tcttaaccct ctcatgcaac ttctttacaa actctgacct agattccctt tcttgatgta 180
 taaacaaagt gtccagtggg aggggaataa ggtctaacga tgtagggaa ttgaacccat 240
 agacaacctc aaaaggggat tgcttggtgg ttctatgagc tcccctgttg tcggcaaatt 300
 ctacatgagg aagatactca tccaagact tatggttgcc ttttagaaga gcccttgana 360
 gggtagataa agacctattc actacctcta ttgcccatac agtttgtgga tgacaagtag 420
 t 421

<210> 17181
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17181

agctttttca gtttcataaa gcttttggac taattaaatt aatactttca aaattaaaga 60
 taaatatttc atatatcatc atttttatat ttttattatt ttaaaaatga ccataatatt 120
 tttatgtaaa ttaactagt tttctaggtt ttttaaccata atatatgtat ttttcaaaac 180
 ttccattttca aagaaaataa tatttattat ttttaagttca aaactcaaag aggaaaaaat 240
 gcatgcaaac aaattcaaatt aataagtatt ggctaaaata tttttattat gaaattaaat 300
 tttttaagga taaataattt cattntttgt aatatttgat attttgattn ttatttgatc 360
 cttanaagta acattgtaac aataaaataa tttttttcan agtttatgaa aaaataatat 420
 a 421

<210> 17182
 <211> 387
 <212> DNA

<213> Glycine max

<400> 17182

agcttttata ggtgaaatca ggtgcagcca tttcccttat agtcctctca cgagggtggag 60
gttgtgccat gttctcagaa tgtgcaaaat cagaatgctc agaatcagaa tgcctcaaaat 120
tataatgctc aagattagga tgttcaaaat caccaataac agaattgaca gattcaccag 180
ttatacaatg ctcaaatga tcaaaaggta taaaatgatg cctaactgaa attctgatac 240
tgaggacaga tgtcgtacag gatgtcacga catcgcgctt cagaacatgc agattgtata 300
tgacagtatg aacagattat acaagtaaata aacacaagag aattgtaacc cagttcgggtg 360
caacgtcacc tacatctggg ggctacc 387

<210> 17183

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17183

nttccacttc cacacaaaaa tgtaattcta attctatcac ttgtttntac tgtggaagaa 60
gaggacatgg catatcaact tgctacttca agaaaaatta tagtaacatt aaaatgatat 120
gggtcccaaa aggatcctca gtttatacta acatgcaagg acccaataaa atttgggtac 180
ctaagtcaaa aacttgatta tgcaggtatc tttgagaaag aagtgggtaca tagatagcgg 240
atgctcaaaa tatatgactg gagatgcac annatttaca cacatatctc caaagaaaag 300
cgggcatgta acatatgggtg acaacaacaa aggtagaatt cttggagtgg gtaaaatagg 360
tacannatct tcanactcca ttgaanatgt tctacnttgt gaaggcctta agcacagcct 420
gcttagcggt agtcaactat gtgacanagg ctatctagta tcat 464

<210> 17184

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17184

agcttggtca ttttatattc tgatgagggt gttccatatg ttctcaagac tggactaata 60

catttgctgc ccaagtttca tgggtcttgca ggtgaagatc ctcataagca tcttaaggag 120
 ttccatatacg tttgttccac catgaagccc tctgatgtcc tagaagatca tacctttcta 180
 aaggcttttc ctcattctct ggaggggagt gcaaaagatt ggctatacta ccttgctccc 240
 aggtccattt tcaactggga tgaacttaag aggggtgttct tggagaaatt ctttcctgca 300
 tctangacca ctgccatcag annagacatt tcaggcatca aacaacttag tggagagagc 360
 ttgtatgagt actgngaaag attcaagaaa ttngtgcga gctgtcctca ccacca 416

<210> 17185
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17185

gcttcatgat gatgaatcaa gttgattcaa gaagttntga tattgtcttg ttgttgacaa 60
 aaaacccaaa gaatgatttc gagattaaat caagatcaaa ttcaagaatc aagagaagtt 120
 tgatttcaag attcaagaaa agatgaattc aagttccaag agaagaaatc aagaagactt 180
 cacaatggga agtattgaaa agatttttta aaaaacaaac atagcacaat tttgtttttc 240
 aaaagagttt tcacaaaatt ttctatgtta ccagagtttt tactctctag taatcgatta 300
 ccagtttcct gtaatcgatt actagtggca aagtttgatt tcaaaagctt ttaactgaat 360
 atacaacgtt ccaattgatt tcaaaatggt gtaatcgatt acaagatatt ggtaatcaat 420
 tactagtgca tctgaacgtt ggaattcaaa ttcaattgtg aagagtcaca tcctttc 477

<210> 17186
 <211> 480
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17186

nttanattga atntacaatg ttccaattta tttcaaattg ttgttatcga ttacaagata 60
 ttgctaatacg attaccagtg catctgaacg ttggaattca aattcaattg tgaagagtca 120
 catcctttca taaatagctt tgtgtaatcg attacaagga tttggtaatc gattaccagt 180
 gacaagtttt gaacaaaaat caaaagatgt aactcttcca atgattttca ggtttttcta 240

aaggttataa ctcttccaat ggttttcttg accatacttg aagagtctat aaaagcaata 300
 ccttgactta catttaaaag aagaacttac aatacttaca acctttacaa acaacttttc 360
 cacatattct tttacaacct ttgaatttct tcttcttctt cctttgcaaa aagctntcta 420
 aactnttctg gttttccaaa ccttgaaaat aaaagtgtgc tattcatctt tttcattccc 480

<210> 17187
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17187

tgtcctcggg gacgaanaca atagaataag ccccttcgat tctttcacag gcgtcatcta 60
 ttcgaagaat gaagggctctg tgtttgaggagg tggcgatgag gtggaggaca acctcgggtg 120
 cagaggtggg gttgaagatg gagccgttgt cttcgagggt ggttcggagg gtcttatagt 180
 tgacgagggt gccgttggtg gccacgccga cggagccgaa gcgtaaccg gcgacaaagg 240
 gctggacgtt attgagcatg gattggccgg cgggtggagta gcggacgtgg ccgatggaga 300
 ggctgccgga gagctgggtct agttttgatt ggttgaagac ttctgagacg aggccaacgc 360
 cggatgatga ttggatga 378

<210> 17188
 <211> 344
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17188

ttctttttgt gatgatctta gaggaagaac ataggagtaa cttgagcatc caccctgggtg 60
 ctaccaagat gtatcaggat ctttaagacaa tgttttggtg gccaaacatg aagagaaagg 120
 ttagtgagtt tgtgcatgca tgtttagtct atcagaaggc taagatagaa catcagagac 180
 cctcaggtaa gctgcaaccc ttagagatac cttagtggaa gtgggacgat atctccatgg 240
 atttcattgt agggtacac angacccccca aaggtgtaga ttctatttgg tttgttggtg 300
 aaagattaat caaatctact cactttatcc ccatcaatat caag 344

<210> 17189

<211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17189

tgcatagcag tttctactac ttaagctggt acatagttgt agtttagttg ttgtactcaa 60
 agtcttttga tgaagcaaca atttgaagac tttggagtaa accttgatca cattcctcta 120
 aaatgtgaca acacaagtgc taccaatcta acaaaaaacc cagtcaagca ttctaggact 180
 aaacacatag aaataaggca tcatttttctt agagatcatg tgttaaaagg tggctgctgc 240
 attgagttca ttgatagtga gcatcaacta gaagaaattn tcaactaaatc ttttgctaga 300
 gatagttttt ttattagaaa tgaactangc atgttagatg catctagcat aaaatgacat 360
 tctgttttga tagtgtgtga tgcacattgc tactcatatc atttgttntg tttagcttgt 420
 gtcccagttt attgattcat atgcatactc attagtag 458

<210> 17190
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 17190

tttcttatta ttgtacgaaa tggacaaaca tgaaccgtgt tcttgaagaa gtgggtctgc 60
 ctcaagaacc tcatttttct cattatagga cgtatagcaa tgggtggaaac taatgttacg 120
 tagaacggaa agcgatctcc catgtttgct cctaataaag ggttgcacaa aggtgatttg 180
 ctattacctt acctctttgt tttaggtatg acaaaactct cccacattat cttgaaagca 240
 gtggaagctt ggaaaccttt ttgtatggga agaaagggcc ccctcatctc gcacttcatg 300
 tttgcggatg acttattatt gtgtgggtcag gcttctacta agcatatgaa atgtactttg 360
 gacactatgc atttgtttgg cgagatg 387

<210> 17191
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17191

acactataat actcagcttg aactattggt gaggtagact agganaagag aggttggttg 60
 ttttaattcta ctcaatatcc tcaatattag aaaataaatc aataaaaataa gaatttaaca 120
 tgtccttaat ttgatgatcc ttctctatcc attgccctta agtatttctt aacataagaa 180
 tcttatttct ttttcttatg ttgatagtct tgagatgcta gaattctctg tttctgtctc 240
 catcttggat ccacttggtt cttgattggt gaaaccaatc aagctcctcc tgccttaagga 300
 ttgcatcata ctcatctaga ccccttttcca ttcacaacca anattggttg gatctccctt 360
 cataaatctt tttttggatc tctcccaacc tattaatgac tctctgcttt ctatatctaa 420
 tgcaaccaaa cacctttctc ttc 443

<210> 17192
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 17192

ctgcagcttt tatttattag atgaagatga atccgtggcc acctcatgga ctctctaaag 60
 gacaatagca tcatttcttg cactgaattg ttaggagttg gaagccatct tctcaatcaa 120
 attcctagcc tcagcagggg tcatatcacc aagagctcca ccactagcag cattaatcat 180
 actcctctcc atgttgctaa gtccctcata gaaatattga ggaaggagtt gctcagaaat 240
 ctggcggtga gggcagcttg cacacaattt cttgaatctt tcccagtact catacaagct 300
 ctctccacta agttgcctaa tgccctgaaat gtcttttctg atggcagtgg tcctagatgc 360
 aggaagaat ttctccaaga acactctt 388

<210> 17193
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17193

tgcagaatgc atggtttggc actncattac gttgtntcgt tcggctccaa gtggntagaa 60
 agtcttctgt ttgccaattg catttggaat ggctgttcc cgaaaatact tccttctctt 120
 gagcttcttg atcatcctga tcttcttcag ccgtttgggg tcaacaactt tcttgctttt 180
 ttccaatatc tctttccttc cctccttata agcttgaatg gttttacttc tctgatcatc 240

tggtaataaa gccaaacttgg aaaatatctt gggactcact atctcaagtt tctcagtaat 300
 ttccttgaat gctggaacaa ggccacgcct tatgaagcac ccttctataa gccgcatcgt 360
 atttaactcg gggagactat gagcatcttt taactccaga tcctagcaaa atggtgagtc 420
 atttaaccac atcctgagag agtgagcc 448

<210> 17194
 <211> 342
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17194

agcttattgc aatgggttga ttagcatggg cagaaatgtg tcagcattaa taggtaaata 60
 tggttcctcac attcctgaga aatataagga cccaagtact ttctgtatac cttgcattat 120
 tgggaacaac aaacttgaga gtgccatgct agatctagga gcatcagtta gtgtcatgcc 180
 tctgtccatt ttcaattctt tatcttttgg atctttgcaa tctacagatg tggtgattca 240
 tttagcaaat agaagtgttg cttaccccggt angtttcata gaggggtgtgt tggttcgggt 300
 tggtaaactt atttttcctg ttaattttta tgttcttgat at 342

<210> 17195
 <211> 364
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17195

agcttttctc agtcgtttgt aaggatgatn ggggtgttaga aagcggcgat gcctactgta 60
 gactgttttt ctcccatggt tcagttgtgt gtaacttgta ttttcttcac agatggggca 120
 tgcattgatga cccttaacac tgtaaccgct gagattccca tatgctggga agtcattaat 180
 ggtacaaaaa agcattgcac gcatttcata cgtctccttg cgaaacgcat canatactac 240
 aacccctcg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300
 gtcatttcct ggctatcttg ggcccgatat catcatagac aacatcatgt attttcgctt 360
 catg 364

<210> 17196
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17196

actcaagctt atottttgaa actatccctt atagacttat agtaagtttg tgtgtggtct 60
 tattctgctg acaaaaaaaaa tataattgtc gatgaagacg aagacaggat gcggaggact 120
 ataaaacaaa acccatagta aaggtaacga cgcaatgagg agaaaaattc ttgtgcagaa 180
 aaaacacgac agctaattcca acaattatct aataataaat taagttatca aatacactaa 240
 taattaatta atggggcaaat tcatatattt cattttcttg tatctcactt ttatttatct 300
 attgcacaat catatgtatt actaaatccc ttgtttacaa ttacttggtt ttagttaatt 360
 nttaataaca ataaacatct ttctgattnt tttaatatct tttaaaaatt attctactta 420
 tatattnttt ataataatta aatcttatat a 451

<210> 17197
 <211> 288
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17197

agcttcttgg ntntcgaagc tagatttgcg tcaaggcttt caccaaatac gcatggcgga 60
 ggacgatgtt cataagacgg ctttctgcac gcaccaggga cactacgaat tcagagtgat 120
 gccgttcggc ctctgcaacg cgccgtcgac gttccaggcg gccatgaacg ataccctcaa 180
 gcctttcttg agaaaatacg tggccatttt ctctgatgat attttggtgt ttagctccga 240
 tttggacacg cacgtcacac accttgaatc cgttctagat accctctc 288

<210> 17198
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17198

ntgacatcaa aatttggttt ccctcttggt tgttgctcta ttggaagaca aaaaatgatt 60

gtctacaagt acatgccctg nggtgctctt agtcaatatt tgttaaattg gaaagctgaa 120
 gggttacaac ctctggattg gagtgggaaga caaggctaag aattgccttg gatgttacta 180
 gaggtgtcaa atattctatt gcatgagcaa ataaaatttt atccatagca atataaaatc 240
 atctaccatt tcgttgggag aagatatgca tgccaaagta tcaaaactttg gattgggttcg 300
 gctttttacgt gaagggaaga attcatgtca aaccaaacta aaggctggaa ctattgtata 360
 ttggcaccta agtatgttat gagggacaca ttgcaacaaa ggtggatgta tttagtttca 420
 atgcaatcct tatgtagatg 440

<210> 17199
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17199

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 ccctagtggg tgggtgcctcc cctctcctct tctcctttgc cttctgctgc atctccatgg 120
 tgaaaaatca ccattgaagg acctcattgg agtcataga tccagcctcc atagaatctt 180
 cacaagcaag cttccatcag ctgtcttact ggttttagcct caccctctaa atntatccga 240
 tgcatacatg tggatgggct aataccacca atgtccacca nggtccaacc tatagccttc 300
 ttatgcttct tgagaactga taacaacttc tcctcttgct catcaactag ggaggcagat 360
 ataattactg ggaaactttt gttatcatcc aagcaagcat 400

<210> 17200
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17200

tatagganaa ccattcgcatt tgttgccctt taatttcctt tataaaccga aaactgtctc 60
 ggtaaaacta tgatcctggg tttgttaacc gttggatttt catgaaattt ggatatgttg 120
 ctcgaaattc aattgggcac accgttggga tttgcgagat aatattcttg gagggagaaa 180
 aaggaatctc atgaagacaa tacaagtggg ggtttcaatc tcttctccgt ctctctgacg 240

tttgggaatt ctattggagc agtaggagga ataactgaag gaatctcang gaaccgctag 300
 agatgctgct atccctggct gaagacacgt gagtccgctc agaggtaagg gatgagttat 360
 tcacaattgg gaattagtga gaacatgtgt agggatcctt agagatatca attggaatga 420
 gt 422

<210> 17201
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17201

tgctcgcaag cttttgcatt gcagnganga cctatcatca aagctggttg tggaggctct 60
 tttgagaact cgcaatgatt gggaggcggc tttcactttt ttcttgtggg ctggcaagca 120
 accggggtat gctcattcga ttcgcgagta ccattctatg atctccatcc ttggcaaaat 180
 gaggaagttt gatactgctt ggaacttaat tgaggaaatg agaagaggta taactggtgc 240
 atctcttgtc actccccaca cactgttgat tatgatcagg agatactgtg ctgtacatga 300
 tgtngcaagg gctatcaata ctatctatgc ttataaacag tataactctc aagtgggcta 360
 gatgaattca taaccttctt tc 382

<210> 17202
 <211> 364
 <212> DNA
 <213> Glycine max
 <400> 17202

ttagctttta tactttatac aagaatgaag ctctgatacc acttggttaga caagtggcct 60
 cagatatcat aagaaggggg gttgaattaa gatattccaa actacttccc caattataaa 120
 tctatatcac tttttattca agttataaat gcccttaata atgaacttct taaatattga 180
 ttcacataaa acactctgaa tatgactata tagcaataat atacaaagga gattaagaga 240
 agagaaagtg ccaactcaga tttatactgg ttcggccaca cccttgtgcc tacgtccatt 300
 ccccatgcaa cccgcttgag agttccacta tcttgtaa at gccttctaca agctctaaac 360
 acac 364

<210> 17203
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 17203

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ctgacattag tgttgaatgc attatttgta aacagtatct ttgacagaaa ttaggtgcat 60
atagagttac agacatcttg gaattgatac atacagacat ttgtgggtca tttcctacac 120
cttcatggaa tggtaacaaa tattttatat cattcataga cgattactct agatatgcat 180
acttgtttct tatacatgaa aagtcacaat ctttgatgt gttcaaaaca tttaaagttg 240
aagttgaaaa tcaactcaac aaaagaataa agtgtgtcag atctgaccgc ggtgggtgaat 300
actatggcat atatgacggt tcaggtgacc aacgtctggc gccttttgcc aggtacctag 360
aggaatatgg aatcgtccca cagtacacca tgccgaggtc acctatcatg aatgggtgtg 420
ctg 423
```

<210> 17204
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17204

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agctttgcat acattatatt taaaagaaag tagagtaatt atttaataata ctttctgttt 60
agtttttagat tttcccttac aagttctact actaaaattg tgagacgcgg ccaactaaac 120
cccgaaaagt aataaaatga taaaagttta tttttttggt tagataaaaa tgttctttga 180
aaatccaagt tgttatttat ttgagttcaa aattctaaat gttgtgtgac ttaaataaaa 240
atattagcat atcttgaggg actaaatgac aataagtatt aagtttagga aataaactga 300
tacagtaagg aatttcatta tntactttta gggattaaat taacactatc tcacactttt 360
aggaaagaat ttgnattatt atttatctta natatttaaa ttaata 406
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<210> 17205
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17205

aactcagctt acactgggcg ggacagaaat tggtagctgg ttatagtata tgttgagatc 60
actggaaca cgaataatac ctttcttata attaacaggt gtgaagctca aaggcagacc 120
taagtcacca tcaacagcta caacatcaag tggacaatct acatcgggtc ttgccgaagc 180
aaggccaccg atatcggagg aagccggaac gatgtagtaa atcgaatcag ctcgaacttt 240
cttccccaat gcgtccagca ctggctcgga tgcaggacca gctagtgcct ttgtgatcaa 300
ggcaaacaca aggaccaatg ttaccaatgt catcttcatt tttatgtatc taattntgtg 360
tttttgtaac ttgtaatgga tattgaagaa gagggatatt tatatatagg atggngattg 420
ctctaatacta tgtacccatg tgcacc 446

<210> 17206
<211> 310
<212> DNA
<213> Glycine max

<400> 17206

agcttctcga catatgatgc gcccgaaatcg gacatccgtg tgaaaagtta tgaccattta 60
aatttcgcga gagttttcga tgtttaatct cgagcgtatc gatataattat aagcctgagt 120
cgtacatccg tgtgaaatgt tatgaccatt tgaatttctc gagagcttct gttgttcaat 180
ttcgagcctc tcgacatatt atgcgcccga atcggacatc cgtgtgaaaa gttatggcca 240
tttgaatttc tcgagagctt ccgatgttta atttcgagcg tatcgatata ttataagcct 300
gaatcggaca 310

<210> 17207
<211> 444
<212> DNA
<213> Glycine max

<400> 17207

ctcacgctta tgatatattg atacgctcga agttgattta cacaaactct cgacagattc 60
aatgggtcat aactgttcac acggatgagc gatacgagcg cataatatcg cgaggggctt 120
gacattgaac aacggaagct cttgagaaat tcaaattgtc ataccttttc acaccgatat 180
cctattctag caaatcacat atcgagacgc tcagaattga acaacggaag gtcttgagaa 240
atacaaatga tcttaacatt taactcgaat gtccaattta ggcgcacac atatagtgc 300

actcggaatt gaacaacgga agctctcgag acatctagat ggtcataact tctcacattg 360
atgtgcgatt cagccttata atatattgat atgctcgaaa ttaaaccatcg gaagctctcg 420
agatattcaa atggtcataa cttt 444

<210> 17208
<211> 349
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17208

tttgcaagct tttatccatt tcacaacgaca gtaacttttt tctcggatat ctgattgagt 60
cccgtaatat aacgagacgc tcgaaattga atattgaagc tctgaactag ttcaaacgac 120
aataactttt tactcggatg tctgattgag tcccgtaata tatcgagacg ctcgaaattg 180
aatgttgaac ctctgagtaa attcaaacga caataacttt tttctcagat gcttgattga 240
gtcccgtaat atctcgagac gctcgaaatt gaatgttgaa gctctgatcc aattcgaacg 300
acaatacctt tntactcgga tgtctgattg aagtcgccgta tatatcgag 349

<210> 17209
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17209

tcaacattca atttcgagcg tctcgatnat gacgggactt tatcagacat ccgagtaaaa 60
agttattgtc gtttgaattg gctcagagct tcaacattca atttcgaggg tctcgatata 120
ttgcgggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt ggctcggagc 180
ttcaacattc aatttcgagc gtctcgatat atgacgggac tcaatcagac atccgagtaa 240
aaagttattg tcttttgaat tggctcagag cttcaacatt caatttcgag ggtctcgata 300
tattacggga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 360
ggttcaacat tcaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 420
aaaacgtta 429

<210> 17210
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17210

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 tctccttttg aagttgttta tggttttaac ccactaactc ctcttgatct tttgcctatg 120
 cctaattgtt ctgtttttaa ggataaagaa cgtcaagcaa aggcggacta tgtgaagaag 180
 cttcatgaga gagtcaaaga tcaaattgag aggaaaaata aaagctatgc taaacaagcc 240
 aacaaagga gaaagaaggt tgtcttcgaa cccggagatt gggtttgggt gcacatgaga 300
 aaagaaaggt ttccggaaca aaggaaatca aagcttcaac caaggggaga tggaccatnt 360
 caagtgcttg aaagaatcaa tgacaatgct tacaagttg agctgtccgg tgagtataat 420

<210> 17211
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17211

agcttcttca caatttttta attagaaaca caatcaatat attattagtt aagaaaaatc 60
 atacatttta gcaaataaca acacatgtca atgagtttat taagaaggat ctcaatttga 120
 ttctaacata atatatcttt aaagaaaaac aaaatttttt aagtttgatt aaattttgaa 180
 cttagaatta attttataat cgatctaaaa gattaaaatt ataaaaatct tacaaaattt 240
 caaaaaagaa aaataaaaaa tccttattat taatatggtt aaaaaattat atattaaata 300
 aanattgaa ttcaccttcg ttaataaatc ttatatgaag ttcaatcaat aataaagtaa 360
 tgacaacaaa tgtattatta gcttttaagg gattttattc gatcacat 408

<210> 17212
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17212

agcttgtctt tgagatagca tgaaagacat ggcgaaagtg tgactatatg atgtggcaat 60
 aggggtgtagt aagcaaatgc tcacctcccc ctctaaaatt taattggatt gggcttctac 120
 caattcaatt aaatttattt cccaacacac atatcaaata ttcacttagt gcatgtgaaa 180
 ttacaaaact acccttaata caaaaactag tctaggtgcc ctaaaatata agagctgaaa 240
 aatcctatat ttctagggta cctacctac attatggagc cctanataca aggaccaaatt 300
 ataatgacat cctagtctaa tatgtataaa gataattgga c 341

<210> 17213
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 17213

tccaagagtt cggcaagctt ctactattac tttgattagg ttacttttgt ttgttgtttc 60
 attagtataa taaaagcttc tatattttgc atctaagatc acacaagatt cctgtcggta 120
 gtctgaatga gaactttata gaacaccctt tttgaatttt aagtatgaat ttttgtgaat 180
 tcgagtaagc aagtaatgat attactgtgt aaaaaaagat aatgatatat attcctctgg 240
 acttaaatat atataaaaaa actaactcaa tttaatgttg ataatctcat gaaaaaagtt 300
 aattcatttt ttaaagtacc atttatatta attgcatagg acaaaaaaaaa taaggttatt 360
 gaaaataaaa ctctaattaa ataaagagta ttttggggat attataatta aataggagag 420
 aattaattaa aatttactta tattttaatt c 451

<210> 17214
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 17214

gactcaagct tgtacttgta cttgctattg gcagattaca tgcattactt cttcctttct 60
 ctctcatcaa cgtgagtggg cattttattc tttttctata attacggggg taataagatg 120
 aaacaatagg gtgatgaaac gaatagggtg tcctctcact gcttgaagca tccaattttt 180
 atttttattt ttatggtaga acatattatc atatcttgga agcatcagct gtgactcggc 240
 taaaggctac cgcggtcttt gagccagatg ggcgccccaa atgcttgccg atgaactcac 300

cggctaacat gagctttccg agatcaacgt tggttttcac cccaagtcca ttcagcatgt 360
acacaacatc ttcggtagct acatttcttg aagctccctt ggcataagga cagccaccta 420
gaccagcaac tgaagaatca actgcactga tccccatc 458

<210> 17215
<211> 445
<212> DNA
<213> Glycine max

<400> 17215

tactcaagct ggactttggt aggcaaaatg tctcgtatgt catgactatt atttgttgca 60
tcaagacgtg actatcatga gactttaagc ttaccaactt aagatccttc aactgcacaa 120
ggctcttaat atttgaagag tatccttgtg gaactttgac atgacacata cactaacaaa 180
aactcatctt ctcttttctg ggcaaagtat gacaagctga aggcaagtat attttttacc 240
atcagacctt ggatataact gcactcgtat atccatgcc aactagatctt gacgagtatt 300
caaaccatct ttcattcttg cttgaatggt aaggagcgtc ccaataacat tatcacatac 360
atttttctct acatgcataa catcaataca atgtctaaca tctagatcag accagtaggg 420
aagatcaaac aaaattgacc ttttc 445

<210> 17216
<211> 449
<212> DNA
<213> Glycine max

<400> 17216

tgtagacctt acattatcta tgatttataa gcaaaacatt tctcaacaaa tgataataat 60
aacttgcaact atattatctt tttaattata gctcaaattc aaatgggtgt gattttgtat 120
ttgaagatac tcttcacaaa atatattaaa ttgcatatat aaataatggt gttgacaaga 180
actagtaata catcccatga ccccccctt tatctactta ttccatattg acacatatgc 240
ataattaata ttaagttata aacttataaa aaacaaattt ttatgttggt aaaaaaatgt 300
caatattaac aattatctat cactaaaaaa taattaaatt cgactaagaa aatttaaata 360
tttaaataaa atcaataaaa gacttataat ataaaatatt ataaaaagta taacatattt 420
aattatatat tataataatt tattatctt 449

<210> 17217
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 17217

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tgtgttctcc cttgtagaac tactaaactgc agtaattggt gtagtttaac tatccggtag 60
tgatgacaat agaatcaatg ccttcacctc atcatcaa ataatctgca ctgattccaa 120
ctgggcaaga atagtattaa attcattaat atgatcagtt acagagatac cttctcccat 180
cttgagggtg aacaactggc gcatcaagta tactttgttg gctgtcgacg gcttctcgta 240
catatctgat aacgccttca ttaagcctgt agtagtcttc tcgtttacga tgttgaacgc 300
gacgttctta gctaattgtca atctgatcac gctaagagct tgatgatcca gcaagttcca 360
ttcttcttgc ttcattgtgt ctggcttaac ccttgataag ggctgatagc acttcttttg 420
atatagataa tcctctatct 440
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<210> 17218
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17218

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tgagaatgga ggatttcctt gagggtcctc tcttangcat ttatggaaca cagttccaaa 60
ctcaaaaatg gaggacacat gaatgacaac gcaattcatt catggggctc cgaaaaaggg 120
taagaatgga ggatttgctt gagggtcctc tcttaggcaa tcatggaaca caactccata 180
ctcgaaagtg gaggaccac gaacaggcct aagcaataac attcatgtgg ctccgaaaaa 240
ggatgagaat ggaggattgc gttgagggtc ctatcttatg caatcatgga acacagctcc 300
aaacttgaaa atggagggtca catgaatgac aacgcaattc attcacggng cttccgaaaa 360
gggtgagaat ggaggattgc cttgagggtc ctctcttang caatcatgga acacagctcc 420
aaactcgaaa gtggaggaca catgaac 447
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<210> 17219
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17219

tgcacttctt aactntcttc aagaatttca gcctctttcc tacttagact ttttagcttt 60
gggagccaag ttatcccttc tgttctagac ttcaaccact tgtgatagtc gtcgatgacg 120
ccattgttac tccccctaag ctcccttattt ttgatgcaa tcccaaccg caagggcatt 180
ggatagaaga ctccaagtag attggggccag agatccaagg gaaggcccta gggttctcat 240
gagccttagg gtagatttcg agcccatggg ctaagcatga gcccgtttat ctttgtaaatt 300
attagaatag gtttttcatt cgtttggggc ttgtattttg gccattctag tagtataagg 360
tttagcctt gtatttcgag gcattntgat tagtctttat agtagggaat tttttgtatt 420
ttcatgtatt ttgtcatg 438

<210> 17220
<211> 399
<212> DNA
<213> Glycine max

<400> 17220
agcttgtatg gtttttgtct cagcattgtc acatgctcat gcaataattg ttagtcgtgg 60
ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgcccg tgcttttctt 120
tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagctg gaaaatgagg 180
ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacattatga 240
ttcactctat tgtgcatctg gtcagagaaa tcaaattgtg tggctctgtt catacacata 300
attcaaattc attaatatgt aatgcatata ttggatgaaa gctttgaaca tggaacttat 360
ggcagttcat tctatattgt tgcaagtact cctacttct 399

<210> 17221
<211> 399
<212> DNA
<213> Glycine max

<400> 17221
agcttttatc aaacaggctg aagaggataa tgccattcat aattgatgaa agacagaccg 60
ctttcatagc tggacgacag ctgctacaca gtgtaatcat cgctaataa acagtggacg 120

aagccataag ggggtcaaaag acatgcttgg tgttcaaagt agattttgaa agggccttacg 180
 actctgtttt gtggaacttt ttactataca tgctgcgaag gttagggttc tacaataaat 240
 ggattcagtg gattgacggg tgccctcaa at ctgcctcggg ctcgggtgtg gtaa atggaa 300
 gccccacctc agaattcatt cctcatagag gccttagaca aggtgaccca ctagcgcctc 360
 tattattcaa cattgtagat gaagccttaa tgtgtctca 399

<210> 17222
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17222

tttcttttgg tatcatggta gccatcagag aagacattct atttccactc ttatctgtct 60
 gcataattaa tcctttcgca gaatgatata ccctacactt cccatgttga atcaaaatag 120
 tcaagccttt ttcttgaagt tgtcctatgc tcaccagaaa ttgcctgagt aaatccactc 180
 acttgcataa gaatgatacc tttttccaca acatccattc tgggtgttatt gccaagtttt 240
 acagtttggc taaagctttc atccagttct gagaaccact ccttgtttcc aatcatatga 300
 ttgctgcaac cggagtcaag gaaccacact tcttccattt tgtcttgctc caggtcaaca 360
 taagacatta ataaaaaatc tttca 385

<210> 17223
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17223

tctgggtggga catcttgact tgcttttcaa tctgacattt tccacagatt ctgccttctt 60
 ctattttcag attgggaatg cctctaacaa cacctttgtc aatgattttc ttcattgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattctct ttggaggata 180
 gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
 tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaggttt gcagtcagtc 360

ccttcaccag cagtactttg ttcagactag gaagtcctac atgaactagc tntcccattc 420
 caatgatctt 430

<210> 17224
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 17224

agctttatct caaattttctg gctaacttat cttttattcc actaacgaca gagaaaggat 60
 ttaaattgctt aattaatgta gttttaaaag gatgttgatc tctccattgc gtaggcaaga 120
 gcaagacaac gcttaccaaa caaaaaccgc tcttaatttt taaaacatat aataaaatgt 180
 tcccttatta taataatcaa attgacttca attagcataa aaataatagc ctttagtggg 240
 acaatccata gtaacctagg aaactcagta caaatacaca ttaaaaatac aaaagcccaa 300
 ggatataata tgcttcaaatt atttgttttc cacactcaaa ttgccatatt acgggtgaat 360
 aagtgaattc aaaccaagat ctaaacaaaa agctatc 397

<210> 17225
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17225

agctttcttg aaacatatat gtttggctctt gttgctgaca gatacaacaa actaccaatt 60
 atactttctat aaacagaatc atttgctaaa tcaataccat cattttattga taacttttca 120
 ttcacaacaa ttggagtgac aacaggcttg cattgctcca tgcgaaactt cttcaatatt 180
 tccaaagcat attttcttttg tgaaatgaag atcccatcat tagactgaga aatctccatc 240
 ctaagaaaat acttcatttc acccaagtca gtcatttcaa attctttttc catgtccttc 300
 ttaaattggg ttaaggaatc agattcattt cctataacca acaaatcatt aacatacaag 360
 gaaacaatga gctgcatttc attnttncac ttcttcacat ac 402

<210> 17226
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17226

tcaagctntg tgtgtggaac attgtaatac catatctgca ggagattttc ttgctatttt 60
atgaacgggt aaacggtcag acāgagāacg ataattgaca agatttgagt cggtttctac 120
cttctctctg ctttttaggcc actcaattgg gcgtttatat ccttcaggaa caggaacaag 180
gcaggtagga ggttcttcag gacagtgtct ttctcgatgt tcātagtgtt tagtactccg 240
gagactccta atagctttcc agttgtcaag gcatgggata aaatcaggac cagcagtgc 300
attgcaaagc ttccacttgt atccagttgc ctgcttgag gattcttgag actccttttc 360
attcttagac tctgctgcct gagttgacca agaccagtt tctgtagtac tttcttcgtg 420
aagctcagac tgagccccag aaggatatac c 451

<210> 17227
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17227

catgagagag tcaaagatca aattgagaga naaaataaat gctatgctat acaagccaac 60
aaagggagaa agaaggttgt cttcgaaccc agagattggg tttgggtgca catgagaaaa 120
gaaaggtttc gaaacaaagg aaatcaaagc ttcaaccaag gggagatgga ccatttcaag 180
tgcttgaaag aatcaatgac aatgcttaca aagttgagct gcccggtgag tataatgtta 240
gttcaacctt caatgtcttt gacttatctc tttttgatgc agatggagaa tccgatttga 300
ggacgaatca ttctcaagag ggagagaatg atgaggacat gaccaagagc aagggaagg 360
atccacttgg aggacctatg acaagggtta gagcaaggaa agccaaggaa gctcttcaac 420
aagtgttgcc catattattt gaata 445

<210> 17228
<211> 401
<212> DNA
<213> Glycine max

<400> 17228

cgctgcaagc ttctatagaa ggttcgttcc taatttctct acaattgcat cacctctcaa 60

tgagctggtg aaaaagaatg tggcatttac ctgtggtgaa aaacaagagc aagcctttgc 120
 tttgctcaaa gaaaagctta ctaaggcacc tgttctagct cttcctgact tttctaaaac 180
 ttttgagcta gaatgtgatg cctctggagt gggagttgga gctgtattgt acaagggtggg 240
 caccctattg cttattttac tgaaaaactt catagtgcc aaccttaacta cccacctat 300
 gataaagagc tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc 360
 aaggaatttg tcattcatag tgatcatcaa tcacttaagt a 401

<210> 17229
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 17229

tatgctgcac atattaacag tagacctcct aacctcagta gcttaatcaa ccacagcgga 60
 gcaattatga cctttccagc aacagatata accctggatg gaggaatcac cctaccctca 120
 gatgggtccag cctcagcaa caacaacagc agcctgctcc ttccttccaa aatgctgctg 180
 gcccaagcag accatacatt cctccaccaa tccaacaaca gcaacaaccc cagaaacagc 240
 caacagttga ggccccctca caaccttccc tccaagaact tgtgaggcaa atgactatgc 300
 agaacatgca gtttcagcaa gagactagag cctccattca gagcttaacc aatcagatgg 360
 gacaattagc tactcaattg aatcaacaac agtcccagaa ttctgactag ctggcctctc 420
 aagct 425

<210> 17230
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17230

ntgaatgctc tattcaatgg agttgtcaag aatattttct atacttatca acacatgcac 60
 agtggccaag gatgcatggg agatcctgaa aaccactcat gaaggaacct ccaaagtga 120
 gatgtccaga ttgcaactat tggctacaaa attcgaaaat ctgaagatga aggaggaaga 180
 gtgtattcat gacttccaca tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240

agaaaggatg acagacgaaa agctgggtgag aaagatcctc agatctttgc ctaagagatt 300
 tgacatgaaa gtcactgcaa tagaggagggc ccaagacatt cgcaacatga gagtagatga 360
 actcattggt tcccttcaaa cctttgagct aggactctcg gataggactg agaagaagag 420
 caagaacctg gcg 433

<210> 17231
 <211> 439
 <212> DNA
 <213> Glycine max
 <400> 17231

gactcacgct ataatatattg aattacaacg tttagaaact gctggttaatt tattaccatt 60
 tatgtgtaat cgattgcgca gtgcagatcc tgaattcaaa ttttaatagc tgttgtaaatt 120
 cagttttggc cactggtaat cgattacatc ctctggtaat cgattaccag agagtaaatt 180
 tgttgaaaaa gactttttta cttaaatttc ttggccaaac tttttgctac ttcaattgga 240
 attcccttcc tatttaatat accctttcta agactctaga gactgtcttg atcatccatc 300
 ttgaatatat ttaatttctt tgtcttgaat agagctttga gacgcatgtg aaactttggc 360
 atcatcaaaa cattcagctt gatcctttgt ctacagtttc gtgatagaat actatataaa 420
 gttagtggac aaaaactca 439

<210> 17232
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17232

taagctcttt caactgcaca aggcctcttaa tatttgaaga ttatccttgt tgaaccttca 60
 cccgacgaaa atactgacaa aaacttatct tctccttttt ggacaaagta tggcaagcta 120
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt atccccatat 180
 cagctagatc ttgacgggta ttcaaaccat ccttcgtctt gccttgaatg ataaggagcg 240
 tcccaatcac actgtcacat acatttttct cgacatgcat aacatcaata caatgtctaa 300
 catctagatc agaccagtac gaaagatcaa agaaaatggc cctcttcttc catatgcaat 360
 tcttacgttt atccttcttt ngggtctttc caaatacagt attcaggtgt tgaaccact 420

gatatacctg ctactagtc aacggatatgg g

451

<210> 17233
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17233

agctttttgt ttgttcttga ccaaattcttt agttaatcgt ctttacgtaa agcagtcttt 60
gtattcgttt aaaatgcatg aagataaatc agtaggagaa caattggatt tgtttaataa 120
actgattctt gatcttgaaa atatcgatgt cactattgat gatgaggatc aagccttggt 180
attgttgtgc tctttgctta agagttactc tcatttcaaa gagactntat tgtttggaag 240
agactctgtt tctcttgatg aagtgcgaagt tgctctgaat tcaaaggaat tgaatganag 300
aaaggaaaag aagtcttcta taagtgggtga agggctgaca gcaagagaca agaccttcaa 360
gaaagatagt anatttgata agaaga 386

<210> 17234
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17234

tcaagaatta tgggtctcatc aaactatttg tttccttatg gaaattctat aaacagacct 60
cccatcttta atggagtggg ttaccactag tggaaaaccc gcatgcaaat cttcatagag 120
gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180
gccggaagtg caaccataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240
gtacaatata atttaaaggc caaaaatatt attacatttg ctttaggaat agatgaatac 300
tttaggggtt taaattgtaa aagtgcctaag gatatgtggg atacactaca agtaacacat 360
gaaggcacia cagatgttaa aagatctang ataaacactn taactcatga atatgaactt 420

<210> 17235
<211> 421
<212> DNA
<213> Glycine max

<400> 17235

taaattactt ctgtcagaaa agccttacaa attggaggag gatgacatgg gaaatttaga 60
agagaatcag gaatctagaa taggactata taactggaat tatctttag acaatattca 120
agctagtac aaggaattat tgtcgggact gcaggctctt tcagcgtctg agattaatgg 180
gtattggaga ctagtagacg agagttacat ggacatgatt ctgggaatgc ttttgaaaaa 240
tgcagtgttg aatgactggg cacttaatgc tttaaatgaa gatgaagttg tgagtatact 300
ggaatcagat ggatttcta ggggtgcttg aaggcattgt ttgcacgtat atggcaacaa 360
agtaaagag tgcattgcta gctttgtttg gaagttggat gagaagcag tatgcataca 420
t 421

<210> 17236

<211> 397

<212> DNA

<213> Glycine max

<400> 17236

agcttataca ttcaatttcg agcgtctoga tatattacgg gactcaatta gacatccgag 60
taaaaattta ttgtcgtttg aattggctca caggctcaac attcaatttc gagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt aatgtcgttt gaatttgctc 180
atagcttaaa cattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240
agtaaaaagt tattgtcgtt tgaattggct cataggttga acattcaatt tcgagcgtct 300
cgatatacta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattgct 360
catagcttaa cattcaattt cgagcgtctc gatatat 397

<210> 17237

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17237

ttgagcaaat tcaaacgaca ataacctttt actcggatgt ctgattgagt cccgtaatat 60
atcgagacgc taaaattga atgttgaacc tctgatccaa ttcaaacgac aataactttt 120

tactcggatg tctgattgag tcccgtaata tatcgagacg gtcgaaattg aatgttcaac 180
ctatgagcca attcaaacga caataacatt taactcgaat gtctgattga gttccataat 240
atatcgagac gtcgaaatt gaatgttcaa cctctgagcc aattcaaacg acaataactt 300
attactcgga tgtccgattc aataccgtaa tatatcgaga cgctcaaaat tgaatgttga 360
acctctgagc aaattcaaac gacaataact ntttactcgg atgtctcgat tgagtcogta 420
atata 425

<210> 17238
<211> 439
<212> DNA
<213> Glycine max
<400> 17238

tgctaaagtt gagaagacca agaatttgat tcaacccaat tatatgcatg agggctcaaa 60
aatgcatcag gaatacaaaa ggaactgacc aaggcaagtg cgtgtggctg aagttcagca 120
cagagttttg gcacttcttt cctcaactgca gaagcattct ctgttgacaa gtatccatat 180
cgaagaaagg cagaatcttc atccacacat atcacagcat acaacgatct caatagaccc 240
aagacattct acagaggaga taaataaaaag caaagaaatc aataaatgga tctgcttcac 300
attttgaccc tacaaggaga gtgctaacaa cactctttta catgagaaat tattaagtag 360
tctgaaacta ttatagtccc cactaactaa tatatttaca taaaacaaaa ttgagtgtta 420
ttaattcttt tcttgtaaa 439

<210> 17239
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17239

ggcaattcag ctctgacccg ggatccttaa gtcacctgag tttgcaactt tgtggcttan 60
tgaagatgaa gaggtaaaag tgactcaaca gggtgaggtg tgtctcacca ttgggagata 120
taatgacaag gtgctgtgtg atgtggctcc aatggaagcg acccatgtgc tgtaggaag 180
atcgtggcag tatgatacca aggcagtgca tgatggcttc accaacaaca tctctttcaa 240
gcaagctgac aagaagattg ttctcaaacc gttatctcct caagaggttt gtgaggatca 300

gataaaaatg agagaaaaga aaaagagtga gacacttgag aggaaaaaga gtgagacact 360
 tgagaaggaa aagtgaggaa agactaagag tgatacactt gagagggaaa agagagatna 420
 tcaaaagagt gaaaca 436

<210> 17240
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 17240

tctttgagaa aacttccttg agaagctaga gcttagctac attcaccctt ctcataacta 60
 agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctac 120
 acataccttt ctaatagcta agctcacctc cttgagatga gaagctagaa cttagctaca 180
 caccctata atagctaagc tcacccccat gacaaaatac atgaaaatac aaaaaaaaaa 240
 tccctactac aaagactact caaaatgcct cgaaatacaa ggctaaaacc ctatactact 300
 agaatggcca aaatacaagg cccaaaggaa ggaaaaatct attctaatat ttacaaagat 360
 aagcgggctc atacttagcc catgggctcg aaatctaccc taaggctcat gagaaccct 419

<210> 17241
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 17241

agcttggaaac taagcttctt ttctctaaaa cttgtcatcc ataaactgat ggacaaacag 60
 aggtagtga taggtctcta tccacccttt taagggtctt tttgaaaggc aaccataagt 120
 cttgggatga gtatcttctt catgtagaat ttgcctacaa taggggggtt catagaacca 180
 ctaagcaatc cccttttgag gttgtctatg ggttcaatcc tctaacaccc ttagacctaa 240
 ttccctccc acttaacact tcttttatac ataaagaagg ggaatctatg tcaaagtttg 300
 taaagaagta gcatgagagg gttaggaacc aaataaagaa ccagacaaag gtgtatgcaa 360
 ctaaaggcaa tagaggaaga aatga 385

<210> 17242
 <211> 377

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17242

agctt~~g~~taat cgattacaca tatactgtaa tcgattacct gagcagattt tcagaaaata 60
ttctcaacag tcacatcttt ttatggggtt cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt*gcgaagagtt ttccaaaaca aaaaagtctt atcctcttat 180
aaagcaaaat tgttttatcc tcttacaaat tccttggcca aattacttgt gattcaataa 240
ggaatTTTTg agtgctcaaa ttgttcaatc tatctctttc aagagagatt tcttcttttc 300
ttcttcttca ttctgaanag ggattaagag accgagggtc tcttggtgtg aaagaattct 360
aaacacaaag tgatgtg 377

<210> 17243
<211> 414
<212> DNA
<213> Glycine max

<400> 17243

gcttatccaa ggctcatctt ggcggttaag ttcttcttcc caaggcttat tccctagtgg 60
atggcgcttc ctctctcttc ttctcttttg tcttccgctt catctccatg gtgaaaaatc 120
accatcaaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
gcttccatca caaattccgc accagcatga ttggagtacc gaccttaagt gttaatttgt 240
gattaggtat ccctgatgtt ttcaatgagt ttagaaattt aggtgtcagt aatccgaaag 300
taggattgag tagttcatct tatttatcaa tgttatcagt gctacaatac tctttttcgt 360
cattgtgtat caatgataag acaataatct attttgtcaa caatatcttt ttta 414

<210> 17244
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17244

taatacccaa aatcacatct ataggaccaa ggtcttttat atcaaaatta ctagacaaga 60
aagacttcat atcatttatg aaatgcatat tactaccaa tatcaatatg tcatccacat 120

acaaacataa aatgatgcat ccactatcat caaattgttt cacatacaca catttatcac 180
 tattattgat ttgaaaacaa tatgaaagaa caacttgatc aaacttttcg tgccattgct 240
 ttggagggtg tttcaaacca tataaagatt taacaagttt gcaaaatttc ttttctttac 300
 ccggttctac aaaaccttca ggttggctca tataaatttc ttcttttaaa tcaccattta 360
 aaaaaagctg tttttacatc catttgatga attntcaa at taaaaacaca aacaagttta 420
 attaaaactc t 431

<210> 17245
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 17245

tcttattttc agcagatgaa gatgaatccg tggccacatc attgacttct ctaaggacaa 60
 taacatcatt tcttgactg aattggtggg agttggaagc catcttctca attagattcc 120
 tagcctcagc aggagtcata tcaccaagag ctccaccact ggcagcatca atcatactcc 180
 tctccatgtt gctaagtccc tcatagaaat attgcagaag gagttgctca gaaatctggt 240
 ggtgaggaca gcttgcacac aatttcttga atctttccca gtactcatac aagctctttc 300
 cactaagttg cctgatgcct gaaatgtctt ttctgatggc agtggctcta gatgcaggga 360
 agaatttctc caagaacacc cttttaaggt catcccaact ggtaatggat ctgggagcaa 420
 ggtagtacia 430

<210> 17246
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 17246

ttgcatgcaa gctttgatgc aacatatgga gaggttaatg aaacaacgag atgatgcgct 60
 ccattgagagg ctggatcaaa tggagaatag agatcatact gaagaacaaa ggacgagaag 120
 agggaaatgat ggtgttctta gacaaaaccg aattgatggt attaaactca acattcctcc 180
 atttaaagga aagaatgatc cggaggccta cttggagtgg gagatgaaaa tagagcatgt 240
 tttctcatgc cacagctatg acgaggacca gaacgtgaag cttgccgcca cggagttttc 300

cgactatgct cttgtgtggc ggaacaagct acaaatagag agagcaagaa tgaagagcct 360

tggttgatca tgga 374

<210> 17247

<211> 371

<212> DNA

<213> Glycine max

<400> 17247

agctatagcc aattcaaacg acaataactt tttactcgga tgtctgattg agactcgtaa 60

tataacgaga tgctcgaagt taaatgttta agctctgagc caattcaaac gacaataact 120

ttttactcgg atgtctgatt gagtcctgtc atatatcgag acactcgaaa ttgaatgttg 180

aagctctgag ccaattcaaa cgacaataac tttttactcg gatgtgtgat tgagtcccg 240

catatatcga gacgctcaaa attgaatgtt gaagctctga gccaatcaaa acgacaataa 300

ctttttactc ggatgtctga ttgagtcttg taatatatcg agacgctcga aattgaatgt 360

tgaacctctg a 371

<210> 17248

<211> 425

<212> DNA

<213> Glycine max

<400> 17248

taaacattca acttcgagcg tctcgatata tttcgattct caatcaaaca tccgagaaaa 60

aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcgatat 120

atgacgggac tcaatcagac atccgagtag aaagttattg tcgtttgaat tagctcagag 180

cttcaacatt caatttcgag cgtctcgata tgtgacggga ctgaatcaga catccgagta 240

caaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcggt 300

atatcacggg actcaatcag acatccgagt ataaagttat tgtcgtttga attgtctcag 360

accttcaaca ttcaattttg agcgtctcga tatatgacgg gactcaatct tacatccgag 420

taaaa 425

<210> 17249

<211> 427

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17249

tctaaacttt gtacaagaat gaagctctga tacctcttgt tagacaagtg gcttcagata 60
tcttaagaag ggggggttga attaagatat tccaaactgt ttcccctaata taacaatcta 120
tttttctttt tacttaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180
aatgaagcaa cttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag 240
aaaatgcaaa ctcaagtttta tactgggttcg gccacacct tgtgcctacg tccagtcctcc 300
aagcaacccg cttgagagtt acactaactn gtaaattcct tttaacaagtt ctaaacacac 360
aaggacaacc cttcctttgt gtttagagat cttttacaac aagagactca cagtctctta 420
atccctt 427

<210> 17250
<211> 394
<212> DNA
<213> Glycine max

<400> 17250

tcgaggaatc ccatgtatct taaccaccat gtcgactatc aaggatgcc aatatgagc 60
agtgtgagac gttggtaaca ttcccagatg aatccccctc gaaaaacggc ccaccaccac 120
gagaattgtg gtttttcgtg atacgccggc aggccgacaa tgaaatctaa cgagaggtcc 180
tcccaaggtc gatggggcac cggttaagggg cataatagtc ctgcgacgcg ttgtgtctgg 240
tacttagtga cctgacaatc catgcaattt gccacaaatt gcttgacatc ttctctgaga 300
ccggtccaag tgaagttctc tgaaattcga gctaattgtc ttgtgattcc ggcgtgaccc 360
cctgttgag tcgtgtgga ttccctgaagt aatg 394

<210> 17251
<211> 361
<212> DNA
<213> Glycine max

<400> 17251

agctttggag aaatttaa at ggtcattact ttctactcgg acatccgatt caggcgtata 60

atatatcgag acgctcaaaa ttgaacagtg gaagctattg agcaattcaa atggtcataa 120
 ctgttctactc ggatgtccga ttcaggcaca taatatatcg agacgcccga aattgaacaa 180
 cggaagcttt tgagaaattc aaatgggtcat ttctttacac tcggaggtcc gatcaggcgc 240
 atcacatata gagacgctcg aaattgaaca acggaagctc ttgagaaatt caaatgggca 300
 ttacttttca cttggagggtg cgaattatgc gtataatata tcgagacgct cgaaattgat 360
 a 361

<210> 17252
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 17252

tcaacctaga ggagacggac cattccaagt gttggagaag atcaacgaca atgcctacaa 60
 gattgacttg cctagtgagt ataataatgaag tgccactttc aatgtgtctg gtctatctct 120
 ttttgatgca gatggaggag ccttggattt gaggacaaat ctttttcaag aaggagggag 180
 tgatgaggac atttgataaa atttggtgag agttttctctc tgggttcctt gttgaaccaa 240
 ttatcagact tatcaaggta atccttgtgg cgtctacca gacttatctt ccttcattgg 300
 aagtggcgtc taccggact tatcttcctt caccggaagt ggcgtctacc cagacttatc 360
 ttccttcact ggaagtggcg tctaccctga cttatcttcc ttcactggaa gtggcgatcat 420
 ccaaattcttc g 431

<210> 17253
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17253

ntaacaagca atagatacat aatcaagtca tagcagttgt gtatgatatg acatttaata 60
 taaaactgat tttgtgtata tgccattatg aataataact ttctgaagac aatcaaacaa 120
 aaagcaactc tgaatgtaaa ctagagaaac tagagagttt aggcattacc atggaaggaa 180
 gcgcatcatg atgtcaccat cccagttgc acaacatgca ccaacttcat caatggcata 240
 tgctgaggat ccagcaatgg gaccatctcc tactctgtaa tcaatgaaaa agattcaaag 300

aaaacctaataataaaatgc atcaatagaa catacaaagg atgattgata gatgctgcat 360
 taacaatgtg tgggtgtatat ctgagcatat gtacttgga attgataagg caatttgtga 420
 acggctaaat 430

<210> 17254
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17254

ntgagcaaataaagacataaactttat acacggatgt cttgttgatt tccgtaatat 60
 atcgagatgc tcaaaattga gactagaagc tctgagcaaa tttaaattgac aataacttta 120
 tacacagata tccggttgag tcccgtaaga tatcgagacg ctcaaaattt agatccgaag 180
 ctctgagaaa attgaattga caataacttt atacacggat gtccggatga gtcctgtaat 240
 atatcgagac gctgcaaatt gaaaacggaa gctcgttaga aattcaaacg acaataactc 300
 ttactcgga tgtgcgattg aatcgggtaa tatatcgaga cgatctaaat tgagactaga 360
 agctctgagc acatggagat gacaataact ttatacagg atg 403

<210> 17255
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 17255

taaaatttga tatctaaca gcttcatact taaaactttt tttatctatt aaaccaacat 60
 ttaatcattt ccttagaatt acaagtaaaa accctaatag aaaaactctg taacacacta 120
 tattccacca ggactcaatt atcgaataat aattaaataa tatctgcaaa ataagtttaa 180
 aattataaaa ataattatta acaaaaagca tctaaagtta atacaaataa aataattata 240
 attgaccaat gccagtgttc tttgttttct tgttttagcaa gaaaaaatga taggatgggt 300
 tatttttcag gaagcatagt ccaacttacg ttaagccagt ccctgatata tcaaattcca 360
 aatgtatgca agaacggatc gactcgggtt tgtgaagctc cttttgtaca gcaacattca 420
 cc 422

<210> 17256
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 17256

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agcttttctt ggtgggttga tgtactctat cacataggat agcatgatca ctaacagaca 60
tattttcaat caattcagtt tcctcttcag gggttttcag ctttatcttc cctcctgctg 120
aagcatctaa caactgcttg gtttgcggtc tcagcccatc tataaacatg ttcaattgaa 180
ttgggtcaaa gaatccatga gtgggagttc ttcttaacaa accccgaaat ctctccaatg 240
cttcaactcaa tgactcatca gggaactggt ggaatgatga aataacaaca ttcccttctg 300
cagtctttga ctcgaggaag tattttcttca taaatttctc aacaacttcc tcccatgtct 360
taagactggt gcctttgaat gaat 384
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<210> 17257
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 17257

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agcttcaaga gaaagatgtc ctcagcaaat tccttatttc cagaaggga tttctatcaat 60
agacctcaa tctttaatgg agagggttac cactactgga aaacctgaat gcaaattttc 120
atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
cctagagata gatggtctga agaggataga aaacgagtac aatacaactt ataagccaaa 300
aacataataa catctgccct aagaatggat gagtatttca gggcttcaaa ttgtaagagt 360
gctaaggaaa tgtgggacac tcttcgatt 389
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<210> 17258
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17258

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agcttgtctc tggaaactct gctggcaccg aactgccta ttatgtaagt tcttccttta 60
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actttattac tattatatta ttgtagaata ataaaaatac taataaccca ttaatggggt 120
 ttactttctt ttatcccttt attataaaca ctgtcattca aagttaataa tagaaaacat 180
 gccttttggt tgcatttgca tttgcagtta tcttcaaaag gatcaacttg ggatgaaata 240
 gactatgaat ttcttggaag tctgagtggg gatccatata tctttcacac aaacgttttc 300
 agccaaggca aggaggacag ggaacaacaa ttctatctat ggttngaccc aactgctgat 360
 ttccacactt actccatc 378

<210> 17259
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 17259

agcttgcttc tacaattact agtatgggac tcatgcggtat gcacgagtcg ctccgctata 60
 tttttttggt ttggtattaa aattgtgcct acacacgggt aagccgtgag aattgacaat 120
 ataattatat ttgtgtcatt ataacactag acaatattat gatgtataac taattgagaa 180
 caaaaatgaa tatgggttaaa aaaattatga ttaacacata gtaaaataac tattatataa 240
 gaaactgtta attaacaaag tcataatggt caagagattg ttttttagcaa aaacatgccc 300
 acaaaataaa gtgttaattt acaaatatta acaaaagtca gaataatatt aaacttaatt 360
 cattaaca 368

<210> 17260
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17260

gcatccaata ccctgatgag gatgtcccat atgttcttaa gactggactg attcatttgc 60
 ttgcaaagtt tcatggcctt gcagggtgaag acccgcacaa acatttgaaa gaatttcaca 120
 ttgtctgctc taccatgaaa cccccagatg tccaagagga tcacatattt ctgaaggctt 180
 ttcctcattc attacaggga gtggcaaagg actggctgta ttaccttgct ccaagggtcca 240
 tcacgagctg ggatgacctt aagagagtat tcttagaaaa aattttccct gcttccagga 300

ccacagccat caggaaggat atctcaggta ttagacaact cagtggagag agcctgtatg 360
 agtactgnga gagatataag aaactatgtg ccagttgccc ncaccatcag atttca 416

<210> 17261
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 17261

cccttatgct gcaaataattt acaatagacc tcttcaacct ttcagctaaa tcaaccacag 60
 cagaacaatt atgacctttc cagcaacaga tacaacctg gatggaggaa tcaccctaac 120
 ctcagatggt ctagccctca gcaacaacag cagcctgctc cttccttcca aatgctgct 180
 ggcccaagca gaccatacat tctccacca atccaacaac agcaacaacc ccagaaacag 240
 ccaacagttg aggccctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
 ggacaattgg ctaccaatt gaatcaaca cagtcccaga attctgacaa gctgccttct 420
 caagctgtc 429

<210> 17262
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17262

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 tggccaaggc tgcattggag atcctgaaaa ccaactcatga aggaacctct aaagtgaaga 120
 tgtccagatt gcaactattg gccacaaaat tcgaaaatct gaagatgaag gaggaagagt 180
 gtattcatga ctccacatg aacattcttg aaattgccaa tgcttgact gccttgggag 240
 aaagaatgac agatgaaaag ctggtgagaa agatcctcag atccttgctt aagagatttg 300
 acatgaaagt cactgcaata gaggaggccc aagacatttg caacatgaga gtggatgaac 360
 tcattgggtc ccttcacacc tttgagctag gactctcgga ta 402

<210> 17263
 <211> 410

<212> DNA
 <213> Glycine max
 <400> 17263

tagcttcgaa ccaaaaaaac aacacatttc tattttgtga gtgtatgaat tacataactga 60
 aaatttttaca aggataaatt ccgaacattt tgatatttat aagaacaaaa aatatatttt 120
 agccttggtt ttattgttaa aaaaaaaaaa gagagaaatg ctactaacat tttctttaac 180
 acactccttc atacacactt tctcttatgt gttaaaatgt atttagttga agaacaagtt 240
 ccacaaaatc ttgaacctac caagtgtgat gggtgggatt ggtatgagcg cgaacatttg 300
 ccttacacat ttgacgtgac tgtcactgca atggaagatg cccaacacat tcgcaatatg 360
 aaagtggatg aactcattgg gtcccttcac acctttgagc tacgactctc 410

<210> 17264
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 17264

tttggttcat atttcgacga ccaatccttc ctattgtact tctttgttga agaaatTTTT 60
 tctgtgattc ttacataaaa gattcataaa atactggatc tccaccaaca caagcaaattg 120
 gtcgataaaa ctccaaaatg gcattttctt tcgaccctat ttttttttta tccttatcat 180
 ttaggaaaga aacgaaaata tcaggataac aaacattctc tagaatttcg cttaaattcg 240
 aacccatagc tgatgataaa actagaatag atattttctg tttctactc acacgagccc 300
 atatccttgc ttttctatca atctctaatt ctaatctacc ccccagctc gatattatgg 360
 tgccagtata gaccgaaatt ccgctaaggt ccaattctga acggaataa ataccaaggc 420
 tt 422

<210> 17265
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17265

agcttgccgc cacggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60

agagagcaag atatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggct agttaactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300
 atatccgtga tattgttgag ctgcangaag ttgttgaaat ggatgatttg cttcacaaag 360
 caatccaagt ggagcaa 377

<210> 17266
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 17266

agcttaatgt catagttttc atgggtgctag tgataacaat aatgataata ttagtaatga 60
 tgatagtata gtgacaataa tgataagatg atcatgatat aatagtgata atggtgacaa 120
 aaatagcaat agtaatagag atgatgataa taatgataat agtaataatg atgacaataa 180
 cgatgataat cgcgaaagta ttaagtatac ctttatttta ttttaggttt cattacttat 240
 ttgatgtcac tatttattat tgcattcaat ttggctctta cttattttaa aaacaagtaa 300
 ttcattaggt cttttttggt caaaaactatt tatttattta tactgggtta agttaaata 360
 acattatttt ttttataatt aatgcttg 388

<210> 17267
 <211> 421
 <212> DNA
 <213> Glycine max
 <400> 17267

tcaagaatta atggcctcat caaactactt gttcccttag gcaattcaat taataggcct 60
 cctattttta atggagtggg ttaccactat tggaaaaccc gcacgcaaat cttcatagag 120
 gctatagatt taaacatttg ggaagccata gaaatagggc tttatattcc caccatggtt 180
 gctggaaata caacaataga aaagcctagg gaagattgga gtgaggaaga aagaagacta 240
 gtacaatata acttaaaaagc caaaaacata attacatctg ccctaggaat ggatgaatac 300
 tttagggtat caaactgtaa aagtgcaaag gatatgtggg ataccctcaa gtaacacatg 360

aaggcacaac aaatgttaaa agatctagga taaacacaca ttaactcatg aatatgaact 420

a 421

<210> 17268

<211> 357

<212> DNA

<213> Glycine max

<400> 17268

agctttgagc aaattcaaac gacaataaat ttttactcag atgtccgatt gtgtcctgta 60

gtttatcgag acgctcgtga ttgaaaatgg aagttcgtcg caaattcaaa agacaataaa 120

tatttacttg gatgtccgcc tgagtcccat aatatatcga ggcactcgca attgaaaacg 180

gaagctcggt ggaaattcaa aagacaatat atttttactc ggatgtgcta ttgagtccca 240

ttatatatcg cgacgctcat aattgattac ggaagctcgc tggagattca accataataa 300

ctttttactc ggatgctcga ttcattcctt aagtatatcg agacgctcgg aaatcac 357

<210> 17269

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17269

ttgagcaaat tcaaacgaaa ataaattnta actcggtagt tccgattgtg tgttgtacta 60

tatcgagacg ctcgtaattg aaaacggaag ctcgctcgcaa attcaaacaa caataaattt 120

ttacacggat gtcggattga gtcccataat atatcgagat gctcgtaatt gaaaacggaa 180

gctcattata aattcgaacc gtaataactt tttactcgga tgttcgattg tgtcccgaag 240

tatatcgaga cgctcaaaat tctgaataga ggctcttagt aaattcaaat gacactaact 300

ntttactcgg atgtccgaat gaatcccgta atatatcgag atgctcgaaa ttgaaaacac 360

aagctcgtag caaatgcaaa ccacaataac ct 392

<210> 17270

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17270

tcaacatcag accacttcca gggtgctgga tctacttcac atggatttga tggggcctat 60
gcaagttgaa agccttggag gaaagaggta tgcctatggt gttgtggatg atttctccag 120
atttacctgn gtcaacttta tcagagagaa atcagaaaacc tttgaagtat tcaaggagtt 180
gagtctaaga cttcaaagag aaaaagactg tgtaatcaag agaatacagga gtgaccatgg 240
cagagaatth gaaaacagca ggttcaactga attctgcaca tctgaaggca tcaactcatga 300
gttctctgca gccattacac cacaacagaa tggcatagtt gagaggaaaa acaggacctt 360
gcaagaagct gctaggggtca tgctccatgc caaagaactt ccctataatc tctgggctg 419

<210> 17271

<211> 404

<212> DNA

<213> Glycine max

<400> 17271

agcttgcatt ttatatgttt cgaacaaatc tgataggtga aataaatatt tttttttaag 60
ttcgtatctt gctcaccaaa tctactaaaa aacacactcg tccccgtacc taaataatga 120
tgtgaaaaaa tatttttttg agaataaaaa atgtataaaa ttagaagatt ttttctttca 180
tattttaagc taaaatatat cacactaaaa tatatcaact tttataatag tattaacaa 240
taaatattaa agtggttaata ctaaaatata ctaacattta taatagtctc aatattaaaa 300
gcatcaaaat gtcttacata ctggtttata tcggtaatcc gcaagtcggt agataaagtc 360
cactaggcta aactaaaaaa tttaatatag ttatccagat tttt 404

<210> 17272

<211> 407

<212> DNA

<213> Glycine max

<400> 17272

agcttttcta ctaagttgcc tgatgcctga aatgtctttt ctgatggcag tggctcctaga 60
tgcaggaag attttctcca agaacaccct ctttaaggta tcccagctga aaacggacct 120
gtgagcaagg tagtatagcc aatcttttgt cactccctcc agagaatgag gaaaagcctt 180
tagaaagata tgatcttctt ggacatcagg gggcttcatg gtggaacaaa aaatatggaa 240

ctccttaaga tgcttatgag gatcttcacc tgcaagacca tgaaactttg gcagcaaagt 300
tattagtcca gtcttgagaa catatgaaac accctcatca ggatattgaa tgcacaagct 360
ttcataagtg aaatcagggtg tagccatctc cctaagagtc ctcttac 407

<210> 17273
<211> 337
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17273

cgtggctata cgagacatct ttccaaacaa agtcagggtta gcgataactc gcctgtgctt 60
tttcttccat gctatatgta gcaaagtcac tgatccagtc aagtttgatg agttggaaaa 120
tgaggccgca attatactgt gccagttgga gatgtatctt caccctgctt tctttgacat 180
catgattcac ttgattgtgc atctggtcag agaaatcaaa tgttgtgggc ctgtntatct 240
acgggtggatg taccegggtg agegatacat gaagatctta anagggtata caaagaatct 300
atatagtctg gaagcatcta ttgttgagag gtacatt 337

<210> 17274
<211> 287
<212> DNA
<213> Glycine max
<400> 17274

aattctagtc aacaaagcaa aaattcttgt gtttaacact tttattttac ctaattgaca 60
ttattattgt atacagctag acttgtgatg gttttaagct tgcttttctt ttgattaat 120
gacagattac tgcactgggc acaacaaacc tgaacaaagt aattgatgtt aattactacc 180
cagttgaaaa tgcaaacggg tctaacttgc ggcacagacc aattgggtatt ggagtacagg 240
gtcttgctga tactttcata cctccttgca tggcatttga ttcacca 287

<210> 17275
<211> 410
<212> DNA
<213> Glycine max
<400> 17275

agcattgatt gaggattgta ttgttcatcc ggtgtctgaa aatcccaccc aagggtatca 60

aattcgagag tttacaaaaa ctcgtaagag tttcatagac tcgactcgta aactcaactc 120
 atagactcgt aagagtctac ttcataataa aataataaca aaatatctat aaataacata 180
 ctaattaaac atttcaacca tataataaag caaaatagta aatcataaag ttcagaatat 240
 ttaaataatc aagtctagta ataatacatg actactaaac aataacttgt aaagggtata 300
 gtagtggtag atcattctca ttgagggttt gatgttatta gagaacaaga gtttgatatt 360
 attagaggta agaattttat atttgagaat aacacgctac atgaaggtat 410

<210> 17276
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 17276

tctaaacgga tctcatctag ctcatTTTgt tgcaactttc tttcctctcc agcctgatca 60
 atagagaagt tgcaggctct tacagccag taggctttgt gctctatctc tacaggaaga 120
 tgacatgcct tgccaaagac aacccgataa ggagacattc ctatgggtgc tttgtaggca 180
 gtcttatgcg cccaaagagc atcatctagc ctggtgctcc aatcctttct gttcggctgc 240
 acaatcttct cctagatcct ttttatctcc ctgcttgaaa tctcagtctg cccattgggt 300
 tgggggtggt atggtgtgtg tcgcaaccta ccctttggcg ggcgagcgag gtgagggtc 360
 acgggtgcgt cttccatagg aggaaaatgc gcgagtc 398

<210> 17277
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 17277

tggcttgcaa gctttgacca tttgaatggc tcaagcgctt ccattgttca atatcgagcg 60
 tctcgatcta ttatgcgctt gaatcggacc tccgagtga aagttaagac catttgaatt 120
 gctcaagagc ttccattaac caatttcgag ggtctcgata ttttatgttc ctaaatacaga 180
 cctccgagtt aaaagttatg tccatttgaa tatctcgaga gcttccgttg ctttaatttcg 240
 agcgtctcta tatgtgatgc tcctgaatcg gacctccgag tgaaaagata tgaccatttg 300
 aatatctcga gagcatccgc ttttcaattt cgagcggtcc tatatgtgat gcgcttggtat 360

ccgacctccg agttagaagt aatgacca

388

<210> 17278

<211> 412

<212> DNA

<213> Glycine max

<400> 17278

agcttcttat tttcagataa tgcagttgag tttgtagcta cctcatgcac tcctctaatag 60

actatagcat catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120

tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180

cttctctcca tatttcggag tccttcataa aaatattgga gaagcagctg ctctgaaatc 240

tgatgggtgag ggcaactggc acatagtttt ttaaactctt cccagtattc atacaggctc 300

tctccactga gttgtctaata acctgagata tccttctga tgggtgtggg cctagaagca 360

gggaaaaaat. tttctaagaa tactctctta aggtcatccc agctcgtgat gg. 412

<210> 17279

<211> 323

<212> DNA

<213> Glycine max

<400> 17279

ttgctttttt caactttcta tcacctggct tcacccatgt tggaaaccct tctttgtaac 60

ttggttcttg gtatggaacc ttgttaaggg ccaaggtgta gctcagcaac ttagtaacat 120

tgttggacat caaagggaga acgtagtctt gaacaccaag ctcatacaac ccggctttgc 180

atgtctcaag gttagtgaga gctgcgctga gccatgtttg ggcatcaact tgtgagagct 240

tgggtgttatg ctttatgggt tggctgagat tgccaatagt ttgctcataa agctcaacac 300

aatcagccca tgcaactctt tac 323

<210> 17280

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17280

tcacttggtt caggcctaatt gtgtttcgtc aagagcagac ttgacagatt cctagtgtca 60
gatcaatggc tagtcatatg gctgacaca toccaacatg ttcttcacag agattactct 120
gaccattgcc cggtaatddd gaaaactaaa ctgggttgatt ggggtcctaa gccctttagg 180
gtgctggact tatggctcaa tcaaaaaggā fāfāaaaagc tggtgcaaga gtcttggctct 240
aaggaccagc aggggtggatg gnggggcatt gtccttaaaa acaagctgag aaatcttaaa 300
aataccatca aacaatggag taaagctaatt gctgatatca atgctaatag aatccagaag 360
ttgagacaga agcttaatga cttggaaact acagct 396

<210> 17281
<211> 343
<212> DNA
<213> Glycine max

<400> 17281
tagggattac ggatacttta ctaagtatga tctactatta tttgacaact taatgttttag 60
ggtttagggg tatttgacaa atgacgattt ttatgtagtt tagcacttag ggtttagttt 120
tacctgacta attcgggtta aaggttatdt gacctattaa ggtcacttgc ctaattacgg 180
attaggtata ttcgaaaaat taaggttact tgactaatta tgatttatat gtgtctaact 240
gattaaggat atgaatacat gactgagtag ggtttatatg tacttgacca actatgggtg 300
agggttatat tacctatdtg tttacagata catgactaat tat 343

<210> 17282
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17282

actcagctta accccttctt ctcttatctc aaaatdtgtg aggctatdtc tcaaagcaat 60
tatgataata atgtcccat cccacttgct gctcatatgg ttgtcctgtg ttatdttgca 120
aattaaagta ttattatatt tttaaaaaga ataaaatgtc gagaaattag atcatattat 180
gtatgttaca aagttacgta agtgaatatt atatgatcaa tgatattggg ttcaccttcc 240
atggaactca gaaactgttg tgctgaaatt gaagatdtgt gcaactcttt accaatcagt 300
ttctccaca tttgcacaac ctctctctgg gataatatgt tttcaggtgg ccttatgtaa 360

actgtcttgt tccgtgttct ngggtcatct atggttttga tagtggacat agctatatca 420
tcttcat 427

<210> 17283
<211> 348
<212> DNA
<213> Glycine max

<400> 17283

tattgtggag ttctaaacgg attatacaac aacaacttgg ctccagatgt gggccgagta 60
agcatatgca aagtggccag gaaactcttc aacttagaac aaatcgcttt gcactgttga 120
tctaatgaa attcggttgg ctgtttcagc agttggaaaa atgatttcgc cttcttggcc 180
attctcagta gaaatcaaga tagagccacc agtctatcga tcaacttcta tacttccttc 240
atgttttgtg ggctgcacat ggcagttcct acttcgtact tgtttgggtt ggctcgcgc 300
ccctgcagg tgattcatga accaaggaac ttacccctc caaccctg 348

<210> 17284
<211> 401
<212> DNA
<213> Glycine max

<400> 17284

agcttctcat ttgatccagc agaggagaag catacaacct atttcactca agtcacaccc 60
acggaactct agcacaagag acttgggtcat cgtcatcttg aaagaatgct aaacatgaaa 120
aaaatgaaat atgcaaaaaga aaatttgaag aagtttcaaa cggaggaatg caaatctgtt 180
agtacacaaa tgaatcaaaa ggagaagttc agcaaggaag aaggcgttga taacattgat 240
gaaggatatt atgggaactt gattggatgt ctaatgtatc tcactacaac gagaccaaac 300
attctatctt ctcaaaaaga caaaactgga atttttgtga caatcaagta gtcattgcta 360
ttgcaaacia tcccgtgtgt catggaaaga ctaaacttt c 401

<210> 17285
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 17285

tcacctctgt tgtaaggcaa cgacaaaggg atctcatata gtttcaggca agcttgccaa 60
ggggttctat ggaccttcc aagtcataga atgcattggg ctggttgcat ataagttaca 120
attgccagag gaagttaaaa tacaccccg attccaetgt tccaagatga agtcttttcg 180
cgggttcaccg aanaatatgg cgggaattac ctggcacaag gagttactca acgaccaacc 240
cctcgtgttt ccattagcta tcttgatta ccgtagagca tccaccgagg atccctgnga 300
gggtgttcag caatggaatg gtatctcacc tgatgatacc tcgtgggaag actggaatca 360
gctgtgtgaa aactaccacc ttg 383

<210> 17286

<211> 423

<212> DNA

<213> Glycine max

<400> 17286

tcttcgggtt tcctcctcta tgcaactcgc agatatcttc accaatgttt tatctccttc 60
tatttttcaa cacctttgta ccaagctggg aatgatgaat atccattccc agcttgaggg 120
ggggatctta acagcatctt gttagagtta gttatgatag ttatttctgt tgtaaccact 180
ctcgtgcttg tacatatata agccctcacg tgcatttaat aagatgagtt gcagttttga 240
tcatcaagag ccaagcgtag cttttcactg caccacctga tatttttctt ctgagaaaca 300
tgagtttcac gtttttcttc cagcttagtt caatatttgt tttcaacagt aagttagcat 360
caacaaatat ataaaatgct tggcagagtg tacattacta tactacctac gtgcttatct 420
att 423

<210> 17287

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17287

gtggatcccg atagtattat tgctgcagct ctaatggata tgtatcaaag tatgggagat 60
gctcttgccc agcaatacgg tggctctgct gctcacaata ctgtatgaca ttttggggga 120
atctaaatnt atgtaatctg ccgacaaata tctaactgct tatttgcac ttcttctgca 180

gctgttgtga tatatgtaac atatattttg gtgaatgaca ggtgtttcca gagaggcatg 240
gaaagtggaa agcaacaaca caatccagag agtttttaaa atccataaaa cgatactata 300
gcaatgctta cacagatggg gaanaacaag atgcaatana cttgtattat tccttccacc 360
tcattttatct caata 375

<210> 17288
<211> 394
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17288

agctttatat tgaatcttct aaaccttttc ccttgataaa aacatcaggg actaaattat 60
gccaatctct ctttcaagga cacattgtca tccctctgat ctatatgctc caatgctcct 120
ctatccacaa aatttaccat tctgtgaggc acaaaagcct taagtaaaat gagttgcttc 180
ttaattaaaa ctctattctt tctcgtagtg cttcttctgg ggaaagtact ccagacttat 240
ctatacatgt ggcattgaca gtaccaatga tcaatgagag taagttattc caagattttt 300
tcaccagttg aaaaaagatt aaataccaca gttccaacca aatacaaccc aactgaaacc 360
ttgaaaacat catcccagga gcctgaanat agtc 394

<210> 17289
<211> 398
<212> DNA
<213> Glycine max
<400> 17289

ctccgctata ctttctagtg atcttgagcg cttttgcatt ttctctagaa gctatcggac 60
ttgttacttt ccctgtatat gatgagagat tgcttaagaa ctgttctatt tgctgtgatg 120
acaagccagt gccaatatg attaccttaa aatgttctca cacattcttg tcacattgct 180
tgagggccta tgctgatggg aaagtacaat cttgtcaagt ccctataaga tgccctcaac 240
caggatgcaa gtattgcaca tctgtaactg agtgcaagtc ttttcttcca ttcacctcct 300
ttgaatctct ggagaaatcc ctgtctgaag cgaatatatg ctgtccacat agaatttatc 360
tgccatatcc aaatcgctct ggtctccttg atcctcat 398

<210> 17290
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17290

agctttataa ttntcatatg ataataagct tcacatagaa ggtaataaga ggtataatat 60
 ttcacaatgc aaagaatcta agaataaaac ttgttaagtt ctttaataaa gaatctcaca 120
 caaaaatata tataactaaaa gaaatcatca ttgaaaagaa aaatccaaaa taataacttg 180
 ctaatattaa tttatttaag tccttcccct tcctttttgg tcatcatcat taactctagt 240
 tcatcaagaa taaattaaca attttaagaa ttttattctc atcaagtgat ccaaattcat 300
 ctctacaat gtctacatt ttagtttccct cttgatggta ttgtaggaaa tttcttgaaa 360
 ggagacgaag attgttataa acaaatacta gatcctttgt ccaatgaggt gt 412

<210> 17291
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17291

agcttgagtt catgattcan aagaaaacac ctcgtaataa agccaattta gttcgacaat 60
 tgggtgaagtt ggagtataag gatggtcata gtatgattga gcacttgaat aattttaaag 120
 ggctcgtaaa tcaattaacc aaaattgaga tgaagattga tgatgagttg caagcccttc 180
 tactccttag ttccttgctg gaaagttggg acacactcgt ggttacactt agtaactcag 240
 ctccagaagg aaagctcacc atggatacag tcagtgcacg ccctctcggt gaagaagcaa 300
 gaagaatgga acgaggtgag tctatccatc ccgaggctaa tgttattgag aatcgngta 360
 ggaatgagac tcgtggatgt aataagagcc gagatctgag ttttcccaac act 413

<210> 17292
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17292

acgtgcattt gtgtgcaata cacaatttct tgtacactac aacaaaatgg tgtatcagaa 60
atgcgtaata gaactttaat ggatatgggtt agaagtatgt taatcaatta gactttaccc 120
gtatctttgt ggatgtatgc cttgaaaact gtcatgtatt tgttgaacag ggttcctagt 180
aaggcagttc caaagacacc ttttgaacta tggacaaaata ggatacctag tataaggcac 240
ctgcatgttt aggggttgcca gacagaaata aggatttata atccgcaaga aagaaaattg 300
gatgcaagaa caatcagtga atatftcatt ggttatccag aanagtcaaa ggggtatatg 360
ttntattgtc ctaatcatag tatgagaaat gtcgaaactg aaatgcaggt tcac 414

<210> 17293
<211> 403
<212> DNA
<213> Glycine max

<400> 17293
tttgctatga gcaaattcaa acgacaataa ccttttactc ggatgtctga ttgagtcccg 60
taatatatcg agacgctcga aattgaatgt tgaagctcag agcaaattca aacgacaata 120
actatcttct cgtatgtttg attgagtccc gtaatatatc gagacgctgg aaattgaatg 180
tttaagcttt gagcaaattc aaacgacaat aactttttac tcggatgtct gattgagtc 240
agtaatatat cgagacgctc gaaattgaat gttgaaactc tgagccaatt caaacgacaa 300
taacttttta ctggatgtc cgatttagtg acgtaatatata tctgggtcgc tcgaaattga 360
atgttgaacc tctgagccaa tccacacgac aataactttt tac 403

<210> 17294
<211> 346
<212> DNA
<213> Glycine max

<400> 17294
ccgcttaaac attcaatttc gagcgtttcg ttatattacg gttctccaat cagacatccg 60
agtaaaaagt gattgtcgtg tgaattgggt tatagcttaa acattcaact ttgagcgtct 120
cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgccgt ttgaattggc 180
tcaaagggtc caaattcaat ttcgagcgtc tcgatattatt acgggactca atcagacatc 240
cgagtaaaaa agtattgtcg tttgaattgg ctcacaggtt caacattcat atttgagcgc 300

ccccatatat tacggcactg aatcggacat ccgagtaaaa agttat

346

<210> 17295
<211> 429
<212> DNA
<213> Glycine max

<400> 17295

tgaaggtaaa ctagatgcct tggttaacct ggtaacttat ctggccatga ataaaaaata 60
tgcacctgtc gccagactct gtggtttatg ctctctgcc gaccaccaca cggacctttg 120
cccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgctg caaacatcta 180
caacaaacat cctcaacctc aacagcaaaa tccgccacaa caaaatagtt atgacctctc 240
cagcaacagg tacaatcccg gatggaggaa tcatcccaac cttagatggg caaatccttc 300
acaacagcag cagcaacaac aacaacctta ttttcaaaat gttgctggcc caagcagacc 360
atacattcca ccaccaatcc agcaacaaça acagcaacag ccccagaaac aacaaacagt 420
tgaggcccc 429

<210> 17296
<211> 412
<212> DNA
<213> Glycine max

<400> 17296

agcatacata tatatTTTTT gacaacatcc gtcatgcctg cattaaacat gattcttctt 60
ttgttaggaat tggccaaaat ggtgatagtt caacaacttt tctataata atcagcgttg 120
gtgacaccag ctgagcagat gtaatTTTTT cgtgaaggtc ctttagttca gcaaacacct 180
gcatcatage aaaataatca gctattggac ctagcatccg gaaaagttga attaagaacc 240
agctatatat agattcacac acaattgtat ttatttatca gtttttaata tcaacctatgc 300
agaagtacaa aataaaatgt ctcatattca caactacctc ctataacaaa acattattaa 360
gatcactata ttctattagc ctcgacttta gtgtcaggta cactctcttc ac 412

<210> 17297
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17297

tctgcttctt catcgacatt ntttctctct cttcatcttt tctttacttc atcgacacat 60
gatatgtctt cttaaagcgta ggaaggttcc aaatgcgttg tggtagggcat tgtgtgtgtgc 120
agtatatgat tgcagcgtct gccatccttt tccctggaca tgtaggcaga gttactccac 180
agagtgtaac ttatagcttt gcaacccttt tgcttgacct cctcagtggc aatcatattc 240
ctccaagcca tgtaagtttc tttacttaat aaaaagttat gcaaacaaca cttattgtgt 300
tgtgtcctat aatgttgtct atcttagtct aattgagttc ttccttttga tcaatttctt 360
cttctgattg ttctacctan aatcaagtaa gaagtacctg tcaaaaaa 408

<210> 17298
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17298

tcttatccaa ggctcatctt ggtggtgaag ctcttcttc caagcttatt ccctagtgga 60
tggcgctctc tctctcctct tctcctttgt ctccgcttc atctccatgg tgaaaaatca 120
ccatcaaagg acctcattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180
cttccatcac aaattccgca ccagcatgat tggagtaccg accttaagtg ttaatttgtg 240
attaggtatc cctgatgttt tcaatgagtt tagaaattta ggtgtcagta atccgaaagt 300
aggattgagt agttcatctt atttatcaat gttatcagtg ctacaatact ctttttcgtc 360
attgggtatc aatgataaga cnaataatnn tatttgtcaa caata 405

<210> 17299
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17299

agcttaagct ctttcaactg cacaaggttc ttaatatattg aagagtatcc ttgtggaacc 60
ttcacccgac gaagacactg acaaaaactt atcttttctt tcttggaaca agcatggcag 120

gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtataccc 180
 atatcaacta gatcttgacg ggtattcaag ccatccttcg tcttgccctg aatgttaagg 240
 agtgtgccaa tcacactgtc acaaacattn ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaat ggatctcttc tttcatatgc 360
 cactctgact tttatcctt 379

<210> 17300
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 17300

tactatattt aacagctagc agacccgaca tcacctatgc agtaggtgtt tgtgcaagat 60
 atcaagccaa tccaagata agtcacttga atcaagtaaa gagaattctg aaatatgtaa 120
 atggcaccag tgactatggg attatgtact gtcattgttc aaattcaatg ctgggtgggt 180
 cttgtgatgc tgattgggct ggaagtgcag atgacagaaa aagcacttct ggtggatgct 240
 tctatctggg caacaatctt atttcatggt tcagcaagaa gcagaactgt gtgtccctat 300
 ctactgcaga agccgagtat attgtagcag gaagcagctg ttcacaacta gtttggatga 360
 agcagatgct caaggagtac aatgtcgaac aagatgtcat gacattatac tgtgacaacc 420
 tgagtgc 427

<210> 17301
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 17301

ttcctctagc tgttctgata aggtttccaa acgttagaga aggagaagag attgaagcct 60
 tcattctact gcctgcatgc aatgaatatt tctccctaac aagatcaatt ttcaaactgc 120
 aacgggtgaaa atatgcagaa atgaatttcg aaccaggtgt cccaatttca caatgatcca 180
 acgggttaatg agtctgggat tatagtttta ctaggacagg ttttgggtct ctgcaagaaa 240
 agaaaaagtt aagatgagaa ggaatttct ctcacctcca actctgattc gcaatttcca 300
 tcgggtgagaa tacttgaata tgagctgcaa acttgggtgct caaatttcac aacaatccaa 360

cgattaacga gtccaagatc attgttttac tgagacagat ttg

403

<210> 17302

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17302

ttttttccat atgataagag cttatcaaat aagcatgatt tagctgttta cacaaacaca 60

ccatttatgt attaaatcta acttgatagc ttaagattaa aaaaaggaaa aaaaggtttg 120

tcatgcctca aataaaactg gctttttctt ttacactggc atcgtgggtg ggtacacatt 180

ctggtaacaa ataattacaa ttattcctac aaaataatcc agaccacccc atttgtgtgc 240

agcactagcg ctactagatg gatgataaaa tgggagggtt taatagatgt atgtttcttg 300

tggattgtta taagaaccaa cntgttcac ccaaagggtta actagttcat cacgttgata 360

ctacaacaaa atagaataca tccttttaaa aacaaaagtt gttcaccac 409

<210> 17303

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17303

tgcaccaact tctcatnta tgcataatat acaagtttat attttaattt aatgtttagt 60

aacacgacta aaatccgtag taagatgaaa aataaatttt caatttaata cttattagcg 120

tatatttaaa agaaagctgt tagaaattag taattattga ttatttttgg gacatgtaag 180

aaagacatta tgtgtgcttt ttttagcgag acaatgttat ttggtttaat agactaataa 240

tgtaatttaa catattgaaa catcaaatta taaatattct gtacaaaatt aatggtatat 300

agatgctgga tgtatttatt cagcataaaa aggttcctgg atgtatttta ttttttgaga 360

ctggccgtct ctatcttc 378

<210> 17304

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 17304

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ttgtattgtg gattatctcg aatgcgtgct tcaacagatc ttgcaacca acctactgat 120
gcctgctgat gatgaagggt ctgaactccc tcgcaagtat gctctccgtg tagagttctt 180
acagtaaaag ttggaacacc gggacacttt gctacatgga cccgccatgg gcacccttct 240
ttggagcatt ntgctataaa acgactgcga tctgacttaa ctatcctaag atcaaaatgc 300
atagcaatgg caatatcttt cagtgttctt cggcaggggt tcacatctgc aaactcttgc 360
ccaatgacta acggctgctc tgctacagta acagtactaa cagatgtgt 409

<210> 17305
<211> 383
<212> DNA
<213> Glycine max

<400> 17305
agcttgtaat aatcttatat agaagtatga gattaagttc ctgagtggaa ttttgatgca 60
atcctcccat ggagggggcc catcaccaga gtcattggta agagactcca ggaagattgg 120
gccagggatg caagagaatg ccttaggggt ctcattgagcc ttagggtagc ttttgggcc 180
atgggttaag tatgtgccc cttatctttg ttcattattag attatggttt cattattttt 240
ttgggccttg atttagggca ccacagtga gggaggggtac ccataagtt tagggtagcc 300
tagtaatgta ggatttttca gcccttgat tttagggctc acagactagt ttttgatca 360
gggatagttt tgtaatttca cat 383

<210> 17306
<211> 377
<212> DNA
<213> Glycine max

<400> 17306
agcttcaaga gatcatctc tctacaacat tattggtgat atctcaaaag gggtacaac 60
tagacattct cttaaagatt tatgcaataa tatggctttt gtatctatga ttgaacctaa 120
aaatataaaa gaagtcatat tagatgataa ctggatcatt gccatgcaat aagaactgaa 180
ccaatttgaa agaaacaatg cgtggaaatt agtagaaaaa cctgaaaatt atcctgtcat 240

aggaacaaaa tgggccttta gaaataaatt atatgaacat ggtataatta ttagaaataa 300
agccagggtta gtagcaatag ggtataatca agaagaagga ctagactatg aagaaacata 360
tgctcctggt gcaagat 377

<210> 17307
<211> 283
<212> DNA
<213> Glycine max

<400> 17307

aatcttattg caaccacgag attcagctcc tgagaggaat gtacgtgcta taactaccat 60
ggatggggcg ccatcaccaa agtcatgggt gacagactcc aggaagatcg agccaaggat 120
gcaagagaat gccataaggc cctcatgagc catatgggtat cgtatagtgc ccatgggtta 180
aacatgcgcc cactgatcat tgtgcatatt atatcatggt aacactatct ggtggagcct 240
cgactcatgg cagcagattg tatgcaggga tccacataat gtt 283

<210> 17308
<211> 417
<212> DNA
<213> Glycine max

<400> 17308

ctataaaaact cagcttctaa acttgactt aatgaagctc ttataaccatt tgttaaacia 60
gtggcctcag atatcttaag aagggggggt gaattaagat atcacagact attccccaac 120
taaataattct acttttaatt tgatccaaca acccaaaatt ccctttaaaa atgaactcct 180
aaataataat gcaaattaat tcttactgaa tagaataat aagcaataaa caataaagga 240
gtttaaggga agagaaaatg caaactcaga ttatatactgg ttgggccaca cccttggtgcc 300
tacgttcagt cccaagcaa ccgcttgag agttccacta tcttgcaaaa tccctttaca 360
agttctgaac cacacaagga caacccttcc tttgtgttca aatttcttta caacaag 417

<210> 17309
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 17309

agctttggtc ctattcaaat agccataact tttgacatgg ggttacgatt gagggccatg 60
atatatcgag aggctcgaaa ttgaaaaatg gaagttctcg agaaattcaa atggtcataa 120
cttttaacftt ggatgtccga ttcacgcaca taatatatcg agacacacaa aattgaaaaa 180
tggaattctc gagaaattca aatgttcata acttttgctt cgaatgtcag atttggcac 240
ataatatatc gagacgctcg aaattaaaca agaaagctct ggtccaattc aaacggccat 300
aacttttgac atgagtgtat gattgacgcc catgatatat agagacgctc gaaatngaat 360
aatggaagtt ctcga 375

<210> 17310

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17310

ngagcgtagt ggaagaaaag ttcttgatat agatttttcc tcttctaga tatatcagtg 60
caaagtcaga tgtttccact ttcaagttaa aaccagatga acccatctgt gaagtctgga 120
agtgattcaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttacccatc 180
taagcatatt ttgcaatggg ctaaggccta aaactaagat gattctggat gcagtcgcta 240
gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300
caactgatca ccaatctcag cataacagac aatcgataca taaaagagga gtgttggatc 360
tcattctcaa gggcttttca atggaagtgt ataaacattt tg 402

<210> 17311

<211> 321

<212> DNA

<213> Glycine max

<400> 17311

agcttgccgc catggaagtt tccgactatg ctcttggtg gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
agaagcggta tgttccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
cccaaggcaa caaggggggt gatgagtatt taaggaaaag gatgtgctca tgatttaagc 240

aaatattgat gaatatgagg agggaaactat ggctcgactt cttaatggtc tgactaatga 300
tatccgtgat cttgttgagc t 321

<210> 17312
<211> 310
<212> DNA
<213> Glycine max

<400> 17312

attttctcatg agtttccggtt gttcttttctg agcgtgtaga tgacgtatgt ccccgaatcg 60
gacatctgtg tgaaaagtta tgaccattcg atcttctcga gagcttccgt tgttcaattt 120
ctagcgtctc gatataattat gtccccgaat cggacatccg tgtgaaaacg tatgaccatt 180
ccattttctc gagagcttct cgtgttcaat ttcgagcgtc tagatgagtt atgtccccga 240
atcgaacatt cgagtgaaaa cttatgacca tgcgaatctc tcgagagctt gcgttgttta 300
atttcgagcg 310

<210> 17313
<211> 402
<212> DNA
<213> Glycine max

<400> 17313

atgaccgatc gtttacaaaa tatcttttca acgtgttatt ctctttgcta aggaccaatg 60
cataggagtt gggattggct tggagaagat ctttatcaag atcaattgag atcagccctg 120
cactgtggcc catcccacca aggttgtagc tctttatata tccccgcagc ttgcaatgat 180
tgacaatcat tgccgaaagt gatggagtat ggttgaacag actacacttt acaatcagaa 240
ttccaatgtc tttatgcttt acagacgggt tagctaatag tgcataatg gcaccaaaca 300
tcacagcctc ggcttctttt ctaacttctt tcattgaatg gttgggagga atgttgagga 360
catctcatg atggtaagtg ctctcccaa tgtcagatct ct 402

<210> 17314
<211> 312
<212> DNA
<213> Glycine max

<400> 17314

agctttgttc aggatttaga aatttccacc atgtttactc atcaccagaa aattgtagtc 60
gtggatggtg aattgccgag tggagattct aataagagaa gaattgtgag ttttgtgggg 120
ggattgatac tctgtgatgg aagatatgac actcaattcc attcactttt cagaaccctg 180
gacacagcac atcatgatga ctttcatcag cctaactttg gtggttcttc aataaaaaaa 240
ggtggtccaa gggaaccttg gcacgacatc cattctcgac ttgaaggccc tattgcttgg 300
gatgttttgc tc 312

<210> 17315
<211> 414
<212> DNA
<213> Glycine max

<400> 17315

tgaattgaac atcggattga agaagagcgc gagtgatgtc gttgaggcaa tcgatgagca 60
ccttctcgtc gattactgtc gcattgctca tcagctggag agcacgcgaa atgctccac 120
ctaactccgc cagaaccatc ttgatcttct tcccttcaac aattcaattt ccaaattaag 180
gtttggatat gcaacaccaa cacggaggtt tcagattcag attattggtc tatctctctt 240
ccaccgccgg taaatgagc ggtgcattat tgggagggaa aaaaagttaa actgtaacca 300
ctacatacta atgggccttg gtcggattg agccttcata ttgtaacca tgcattgtgt 360
tgatccgtac gtaactgtat tacatgaaga agcttgttat gtggtgatgg aaaa 414

<210> 17316
<211> 426
<212> DNA
<213> Glycine max

<400> 17316

ctaagcttat ctttttaata agtcatatct tctttatgaa tgtgcaaaaa atttaactta 60
tgettaaaaa atttaattat ttatcaactt tattggacct tatttgttat gtaaactt 120
gttgtttcat gattgttcta ccaaaaacat actccaatga ccatttctta ataagaatca 180
atgtttaata agttttcacc atatgaacac cttgtttgag atgccattag acacaaataa 240
ataattcgtc ccacatagct catctttaat aataaaaaaa gtctaatagcc gatatttatt 300
gttcagtga gtagatataat taagttagtt attttaatga ttaatatatt tcgataattc 360

aaagaattta ttgtcaatta accaagttaa taaccatcac tcccgatcatg ggaaaaaaaa 420
 taaagt 426

<210> 17317
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 17317

tttgttttatt tattaaatca tatattacat gaagttgttg ggtgcaaata agtctttcta 60
 aattacaatt tctattatct tatatactta ataattgact gattatagta aaaaaaacia 120
 taataattga ctcataatca tacctcccta gccggcttgt gtgcaatcaa caaaagctat 180
 ctttcgtttt atagactcta taatctcttt ttgtctttga gagtgactct atataatttc 240
 ataattgcat attaggtatt aataatattta aagaggcttg ctagctagcg tacattcgtt 300
 tattttataa ttggaatagc ttagtaagtt ttaactaaat attatcttca aatatattca 360
 caatgtagct ggctaataa caccaattga acaacaagtt aatgta 406

<210> 17318
 <211> 346
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17318

ntgaaaaaca ctttttattt tatatcaatt ggccattctc ttgtcttatt caattaggaa 60
 ttcccttcct aatattctag tgatcatctt gatgttgatga cttgtaattc tgaagtattg 120
 tcttgaattt taatcttgaa aagcccatct gcatcaattg caacacatca tcatgatcat 180
 catcaaaaaca tcaaagccaa ttgcatctac acatgtgtcc tccaccttcg agattggagc 240
 tatgtttcac gattgcctaa gtgcggaccc tcaaggcaat ccgccattct tccttttttt 300
 atcggaacc catgaatgtt attgcctagc gctattcatg tgcctt 346

<210> 17319
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 17319

tgacggacta taccaagctc taggaaccag ggacgtagaa agatcttata taggcttact 60
aagggtagag agaggaagac tacagatttg gatcacgtaa agtgtgttaa ggatgaagaa 120
ggcaaagtct taatgcatga aaaagatata aaggaaaggt ggaagggtgta tttccacaac 180
ttatttaatg atggatatgg atatgactct agcagtctag acacaagaga agaggaccgg 240
aactataagt attatcgtcg gattcagaaa caggaagtaa aggaagcgtt gaaaagaatg 300
agtaacggta atgcggtggg gccagactac atacctattg aagtgtggaa aactcttgga 360
gatataagtc ttgagtggct caccaaactc tttaatgaaa ttatgatgtc aaaacgcatg 420
c 421

<210> 17320

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17320

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ctttgtcgac cccaaaagtt catttttttcg gttgaggcac atgtcgtatt tgcaaagctc 120
tttgaagact tcttctaggt ctgccacgtg ttgagttatg ctctgaaact tgatgaccat 180
gtcatcgaca tagacctcaa tgttttgtcc aatctactac ttgaaaatct ggtccatcaa 240
tctatgggat gtagcacctg catttttttag ggcaaagggc atgaccctat agcagaagtt 300
ggcaccctca gtgatgaatg tcattttctc ctcatcttga gcgtgcatcc ggagtagatg 360
tctaggaagc ttagtacttc gaacctggac gctcgatcaa atagcttat 409

<210> 17321

<211> 327

<212> DNA

<213> Glycine max

<400> 17321

agctttcttt tatcagagaa gaggctattc tcttgggtcca agcccttgga gcttgcttta 60
agccatacaa tgccttaagc aattagaaca ctctatcttc cttgccttag atctccaaac 120
tacgagggtg ttcaacaaac cacctcggtt gccaaaggtag cacttcaggt aaagctgaca 180

tttacattaa tctgggtata aagaccaatc tctattatgg gcttgcgcaa ttaccaacct 240
tatgggttca agcctagcta ctggaccata acttcagaat gatccaaacc agatttttgg 300
aggacatcct ttgcaactaa ccttgct 327

<210> 17322
<211> 312
<212> DNA
<213> Glycine max

<400> 17322

agcaacgttt attctcagca ttatttaatt ttttgcttcg gaatggaggg ttccattcaa 60
actagtatta ctgatcttaa tgcttgaatt tactttgcag attctacttc gattatagta 120
caacctttgt gggagcacga aagatttgct tccatcctgt gaactgttct ttgctccttg 180
tgactgtgct cttttatggg gttatgtatc cgctcattga tcggcttaaa ggaaactggg 240
ctccagacca ctttgaataa acttacttga tgggcttata cggatataag gtatttggtt 300
caattgctct aa 312

<210> 17323
<211> 381
<212> DNA
<213> Glycine max

<400> 17323

agctttaccg agtgtctgaa agcctcatca atggtagaga accactccct atttccacac 60
atgtgattgc tacaaccgga gtcgagaaac caagtctctt cttgttgcaa gttgtcagct 120
tcgacaagag acatgagcag catctcttct tcttcataaa tctcagcata gtttgcactc 180
tccttccatc ttgggcattc gtattggaag tgtcctagtt tgtggcactt aaagcactcc 240
actgtggctt tgtttgagaga ctgccttcct ctgcctctgc ctcgaccccg accaaagcct 300
ctacctctgc ctctacctcc attctgttct tcatgtgaga ccttcaatgc ttgctcatcc 360
cttgtgtcac taccatgaga a 381

<210> 17324
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17324

agcttatgct gcaaacattt ataatagacc tcctcagtag caaaaccaac aacaacaaaa 60
taattatgac cttttaagca atāāātataca tccaagttgg aggaatcatc taaatctgag 120
atggacaagt cctccacaac aacaacaacc tateccctect ttccagaatg ctgctgggtcc 180
aagcaagcca tatgttctct ctccaatata gcagcagcaa caatagcagc cacaataaag 240
acaacaagca gctgaggctc ctctcaacc ttccttagaa gagttagtga ggcaaatgac 300
catccagaat atgcaatttc agcaagacac aagagcctcc attcagagtc tgacaaatta 360
gatggngcag atggctactc agttg 385

<210> 17325
<211> 376
<212> DNA
<213> Glycine max
<400> 17325

agcttgaagg acattcacga agtgtgacta tatgatgtgg caatgggggtg tagcaagaaa 60
atgctcacct cccctctaa aatttaattg tattgggctt cttccaattc aattaaattt 120
agttcccaac acccacatca aatattcact taattcatgt gaaattacaa aactaccctt 180
aatacaaaaa ctagtctagg tgccttaaaa tacaatggct gaaaaatcgg gctcatactt 240
agcccatggg cccaaaatct accctaaggc tcatgagaac cctagggcct tctcttgcatt 300
ctttggccca atcttcttgg agtcttctat ccaatgccct taggggtagg attgcatcat 360
tccctcccc ttgaaa 376

<210> 17326
<211> 399
<212> DNA
<213> Glycine max
<400> 17326

agcttccatc aagaagtgtg gtgagtaggt gcataaaaaa tgagatgac ttcttgtatg 60
gattgctaag gaagattatc accgatgatg ccaccaatct gaacaacagg atgatgaaag 120
aaatgtgtga ggatttcaag acccaacacc acagttctat gccttacagg cccaagatga 180

atggggcagt tgaggctgct aataagaata tcaagaagat agttcataag atgtctatgt 240
 catacaagga ccggcacgag atgctaacct ttgagtcgca tggttatcga acttcagtgt 300
 gctcattgac tggggcaacc cctttctctt tagtgtacgg gatggaggct atgctcctgt 360
 ttgaggtaga ggatccttct ttgagaatgc tagccgaat 399

<210> 17327
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 17327

ctaagcttgt tcatcttgag ataataggtg gtcactctca tttgtagatg atggtgttac 60
 atacttcttt ggcctaacag gaactccaat atttttacag cttctaattgt tatgattggc 120
 ttggccacac cttccacatg taaactcagc caatttcttc tttagcttgt cctgtgacat 180
 tgtcctcacc tacagatcta cttctatttt tctttggcct tctcctttgg acctttttat 240
 gtggtggaac aggggtgtgta tactgtgtct gggcccaata ttgtggctct tggactggct 300
 caataaaatg ctggcatgtc ttattataag cttctattga cagccactca tgacacatgt 360
 tctcaggctt cctccttttg agagttattg ttgcaatggc atgtccgcat gacatcccta 420
 catcaaag 428

<210> 17328
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17328

agcttaacaa aatgcatgcg aagtgggtgg aattcctaga gcaattccct tatgttatca 60
 aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120
 tttctatgct tgaaacaaaa ttgattggtc ttaaattgtt gaaaagcatg tatgaaaatg 180
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300
 atttgcttgt ttgtgaagca catgaaggag gtttaatggn gcattttggg gtccaaaaga 360
 ctctagaaac attt 374

<210> 17329
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17329

aagctttctca agcattccac tcattaacaa acaagagacg atggcctaca aatgtatcat 60
 atatagcctc attagttatt catctgtagt gtcaaattat aaagatttca tgtctaagaa 120
 gctccttcta cttcaatcaa ttcttagact ttagtctcca aatgggatgt tataacttgt 180
 acgaattcca gatgagctta tcaagaatgc caagtacata gccacaccat ggaaggggat 240
 cctggcagca gatgagagca cgggcaccat cggaagcgc ctagcgagca ttaacgttga 300
 gaacattgag gccaacgcc aagcccttcg cgagcttctc ttcaccgcta catatgccct 360
 ccaatacctc tctggg 376

<210> 17330
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17330

agcttgggta ggatgcttca atggaggaaa agaagagag agagaaagag agagggggga 60
 gcacgaaatt gaaggaagaa aaagagagag aagttgaact ttgagttgtg atgcaatcct 120
 ccctaggaag ggaccagtca ctagaaccat aagcaagaga ctccaagaag attgggctag 180
 agctgctgaa gaaggcccta gggttctcat gaacctcagg gtagatttct gagcccatgg 240
 gcctgtgtcc aattatcttt gtacatatta gactaggatg tcattatatt tggtccttgt 300
 atttagggct ccatattgta ggtagggtac cctagacata taggattttt tcagcccttg 360
 tatttttaggg cacctagact agtntttgta tt 392

<210> 17331
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17331

ntatcgtcag tctcaaaactt ggcctagttct ctatcttttca aaacctatca tttactttat 60
 ctattgtatt tttattattt tataaaaaga aactctattt tattgtctat caaatgaata 120
 aataaaacat tcttttattt tctctcaaat cattatttta attaataaag gcattttctcc 180
 ttattttattt aattataaaa acctcatcat tttttctaaa aactattttat ttataaataa 240
 taatccctta taaattagtt tacaaaaaat gaaatgttac aactgagtaa tccaaatgac 300
 aaaattaagg ttgacaatca cgaaaatatt gcgttgagta ggtgatgtac ataatcatta 360
 taagaaaaat atgattaacc ttaatatata agataaatat taagttaatt t 411

<210> 17332
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 17332

agcttcaatg ccactacctt atagggatta tgcctttatt tatagtgtct acttgataaa 60
 tgcacttcca tctcatcta ttcaatatga attgaactac taaaaactat ttccgaaatt 120
 accagattat agcttcttaa ggatctttgg ttgtgcatgt tttctctat ttgactata 180
 tagctcctct ctactaaga cttgctcata atgactccaa agtttctctt gaagattatc 240
 caaaaaaatc tattatgacc ctgaagcaac tatctagcaa tgccattaag ctttcttctc 300
 aatcttcttt tttctttgaa aatattgcc aagaggttaa cattccaatc tttcaaagca 360
 tgttggatat gtttgaccct ttgac 385

<210> 17333
 <211> 290
 <212> DNA
 <213> Glycine max
 <400> 17333

gttgtgcaga gacactctat gttctcatat caaaagctta attatacata ctgctatgaa 60
 tttttaaaaa aaataatatt cttataaag gatattttca tgattatgat ctctaattcca 120
 tttttcacac gtatgtttat ggtaatgcga tcattcttgt ttaactattt ggatacagtt 180
 aaaaatcttt tatattatat taactcatat atgtattaaa tattaaaata tcaataaaaa 240
 tatgattact ctttgatttt aaaaaatct taaaattctc atgactacca 290

<210> 17334
 <211> 442
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17334

tcttacaaga gactaagana cttttgtcta anaattttga gacgaaagat cttggggaag 60
 actcttttgt attaggaatc aagatactaa gagatcgctt tcaagggtatc ctaagggttat 120
 cacaagagag ttatatcgat aaggctcctag atagattcaa catgaaagat agtaaaccag 180
 gagatacccc aatagctaaa ggagataaat ttagtctcaa acaatgcccc aataatgacc 240
 ttgaaagaat agagatgtaa aagattcctt atgcatcaac agtaggaagt ttaaagtatg 300
 ctaaagtttg cacttgtccc gatatagcat ntgtagtagg agttctgggc agatatttga 360
 gtaatcctgg aataacaacat tggaaagcag taaaacgtgt gatgcgttac ctaaagagaa 420
 caanaggata catgctcaca ta 442

<210> 17335
 <211> 386
 <212> DNA
 <213> Glycine max

 <400> 17335

agcttggtaa gatcctcctt ggtggggatg tgacgtgcac cgcacacact cagagctcc 60
 tcacgtgccc gtatctgcca ctgcggatgc atcgcgagca ggatcgtggt ccacgttagc 120
 aaattogaag tgggtgtgtt gctgcgaag aaaaagggtt tgcactcttc cactatgtca 180
 tccaccgtta cgttcacatt ggaggtggtg ttgttgttgt tgttggaagc ccaaatcatg 240
 agccccagca aatccgttgg cctttttgtt tcttctttcc cacacgcatt ctcttttctt 300
 cgtcgttoga tgatcttcac caacgatttc ttgatttcct tgtccagttt ccaagaatat 360
 atattcctcc tcgtggggaa gaatct 386

<210> 17336
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17336

tgcttctaca ccaaactga agcatccacc tccaccataa agaattttgt taagtcaggt 60
aaagccaaaa ctggagcctc agtagcttct tctttaattg ttgaaaagcc agttttgttg 120
catcagacca gataaagtta tcttttttaa gcatgttagt taagggttta gcaatgccac 180
catatccctt gacaaacctt algttaatac caattaaccc caggaagcct ctaagttgtt 240
tcaaagtttg aggtaatggc cactggctca ttgtgtgcac tttagctgga tcagttgata 300
ccccctcctt agaaatgaag tggccaaggt actctaccat agacacccca aaatagcact 360
tactcttctt agcagacaag gaattcgctt tcatagttat cacaactttg tgtanatgta 420
gcaaatggtc ttccaatgaa caatt 445

<210> 17337
<211> 427
<212> DNA
<213> Glycine max

<400> 17337
ttttctctgg ctgttttgtt aggattctca agcgttatat agagaaagaa aggattatta 60
gtctcaattt tattgtctcc gtgcgacgga ttttctctc ttacaaaca ttatttcaaa 120
aatcccaacg gtgaagatgt gagaatttga ggaccatacg cggagtctaa atttcaggat 180
gatccaacag ttaacgaatc caagatcata gttgtactgt aataaattta cgtgtatgcg 240
aaaaaaaaag gaattttgag agaggaagga agacgaacga atttatgagg aagtgagagc 300
gtagatcaat atcaaaattg acctaatatg tttctatcta tagttagagt attctaaact 360
tattatctac tctattattt tatcttatca ctttataaaa aaaagaactc tctattacta 420
tgtcatt 427

<210> 17338
<211> 353
<212> DNA
<213> Glycine max

<400> 17338
agtttgcttt tggagattgt aactatgctc ttgtgtggtg gaacaagcta caaaaggtga 60
gagcatgaaa tgaagagcca ctggttgata catgggcgga gatgaaaagg atcatgatga 120

agctgtatgt gccggctaga tactcaaggg attagaaatt taatcttcaa aaactaaccc 180
aaggcaacaa ggggggttgag gagtatttca aggaaatgga tgtgctcatg attcaagcta 240
agattgaaga aaatgaggac gtaactatgg ctcaatttca taatggctctg actaaagata 300
tccgtgatat tgttcagtcg catgagattg ttgaaatgga ttatttgctt cac 353

<210> 17339
<211> 441
<212> DNA
<213> Glycine max
<400> 17339

tattgcatga gctatatcag gttgagtaca tgccatagca tacattattg aacctataat 60
gttagcatat gtgatactct ccatataagt atactcttca gctctctttg gggattgact 120
tacacttagt ttgaattgat catatatagg tgtcacaata ggccaacttc gaatttgaca 180
ttccaaacct ttcaataaat ttattgaggt atgtctcttg agatagatac aaaatcttct 240
tctttctatc ctttttgatt tccattccca atattctcct tgttgtccca agtccttcat 300
ttcaaattcc ctttctaact cagctgtgac cttggtaatt tcggccttac cgttacttgg 360
tattaacatg tcatcaacat atagcagtag gattacagag gtacctttat tccttttgaa 420
tagccatttt caattgacta c 441

<210> 17340
<211> 393
<212> DNA
<213> Glycine max
<400> 17340

tatcttacta taaataacaa ttaatattta ttatcaaata atagtgtaaa aataatttat 60
actatctata tatgtataaa ctatttgctc ttaaaattta aaacaaaaga aggaagatta 120
aactcttgtg agagcacggg aaataaaagt atataactga gtcaaaggat gtatgcttāg 180
agacaaagga tgcattgctta gagagttatt atgaaaattt aaatgtccaa cataggtata 240
ttaaactaat aattaatcta cacattaagg aaattactat gggaaattac tatggtatat 300
tggtagtgac atgaagataa tatgtaataa tacgggtgagt tattaactat ttgttaaata 360
atgattctat actaaatggt cgaaattata ata 393

<210> 17341
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17341

agcttgggtgc cactcttgaa acaaaacacc aaggttcgac atatcgtgtt catcatctgg 60
 gaactcccaa tctaaatcga gaccattgaa cccgtattgg cgcgccacgt ggatgggtgga 120
 gtttatgaac acttgtcgtg tgtgtttgtt gctagccatg agggagaatg cggttgagtt 180
 gctaccacct cctccaattg acaagagagt tttcacccggc gggtaacggg agcggagttcc 240
 attgatgaat tttggtatcc atttttcatc aaattcgggt acactaaggt gaaaaagttg 300
 agggctcttgt tggataaagg catagtagat atgagtgaag tattttgtgt caatggaaga 360
 gggtgaaagg tcatcacc 378

<210> 17342
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17342

tcatgatgat gaatcaagta taaatcaagt agttntgatg atgacaacta gccc aaaaga 60
 atgatttcaa gtttgagtca acaagttcaa gatcaagatt aatttcaaga ttcaagaaaa 120
 gacatcaaga tttaagagaa gatgaattca agattcaaga gaagaaatca agaagcaaca 180
 agtcaagact tcacaagggg agtattgaca aagaatTTTT caaaaaccaa acatagcaca 240
 gttttgtttt acaaaagagt tttctcaa at ttttctaagt taccagagta tttactctct 300
 ggtaatcgat taccagttta ctgtaatcga ttactagtga taaaatttga tttcaaaaag 360
 tttttaactg aatttgcaac gttccaaaag aattttaaat ggtgtaatcg attacaatat 420
 attggaatc gattaccagt gtatctgaat gttgaattc 459

<210> 17343
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17343

actcagcttc ttacatagtc cgcctttgct tgaccttctt tatgtttaan aacattaaca 60
ttaggcatag gcgaaagatc acgacgagtc tgtgggttaa aaccataaac aacttcgaaa 120
ggagaacaat tagtggtgct aaaatccttc acaaatcctc tataaaaact tgctaagcca 180
tgaaaactcc tcacctcggt cacggactta ggtgtaggcc attcttgaat agccctcaac 240
atttcctcat caacttgac tccttttgaa ctcacaacaa aaccaagaaa cacaacatgg 300
ttagtacaaa agatgcactt ttcaagattg gcatacaatt gttcttctct aagcacaatc 360
aagacagatt ctacatgac aatatgcaa tcaagtgaag tgcttagata aaatatcctc 420
aagtcacacc acacnaactt tctataactc t 451

<210> 17344
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17344

tgtaatggcc tccaaaattt tagacaagtg gcctctgtat cttaagaagg ggggttgaat 60
taagataaaa aactttccct aattaaaatt ttaactatgt tttggattaa caatgcaccc 120
cagttgccca atcaaatagc taggtcactc gaatgaaact agtgtcctta tctttacttc 180
ccttttattt ccaataaaag ataagtaaag aagggaact gtcataccct aatttcgtcc 240
agggactatc attcatggat attttgattt tcgctagccg aattgagttg ttcgacgcct 300
attaccaccc aagacgaaag atcattcgac gtntnggtga agaatgcaa naatacccaa 360
aaggaggggc aaaagggtca ttnntaatcc ttttttgaa ccttagctcg cccaggctag 420
cctctagctc 430

<210> 17345
<211> 317
<212> DNA
<213> Glycine max

<400> 17345

tcttagtttc agatgatgca gatggttttg taactatctc atgcactcct ctaatgacta 60

tggcatcatt tctggcgcta aactgctggg agttggaggc catcttctca attaaatgtc 120
tggcttcaac aggggtcatg tctccaaagg ctccaccact ggcagcatct atcatacttc 180
tgtccatatt actgagtcct tcataaaaaat attggacaag aagctgttct gaaatctgat 240
gggtgggggca acTggGcAcAt aaaatcttaa atctctccca gtactcatac aggcattctt 300
cactgagatg tctaata 317

<210> 17346
<211> 385
<212> DNA
<213> Glycine max

<400> 17346

ttgctttctc tttatgaata atgtggtatc cactttacct ctggagaatt ctttttcaag 60
aagaaaatta cttaatcggt cataccatgc cctaggggct tgtttcaaac cataaagagc 120
cttttgtaat ttataaacat gatttggttt attagaaatt tcaaaaccag ggggttggtc 180
aacatatacc tcttcttgaa ttaagccatt tagaaaggca ctcttaacat ccatttgata 240
aagtttaaag ttcattatgg atgcatatgc caaaagcatt ctaatggctt ctaatcttgc 300
aacaggagca tatgtttctt catagtctat catgtaaaca ttattgactc tatgtcctac 360
atgctttata ttaatgtcat gctta 385

<210> 17347
<211> 389
<212> DNA
<213> Glycine max

<400> 17347

agcttaataa atcaatctat ggcttgaagc aagcctcctg ccaatgggat ttgaagtctc 60
atgatgtcgt cacttcattt ggctttgaaa agaacatcat ggatcaatgt atataccaaa 120
aggtcagtgg gagtaagatt tttttcttgt gttatacgtg gatgacattt tgcttgcaac 180
taatgataag ggtttgctat atgaggtgaa ataatttctc tcaaagaact ttgatatgaa 240
ggatatggga aatgcatttt atgtcattgg cattaagatc catagggaaa gatctcgagg 300
aattttgggt ttgtctcaag agacttatat taacaaattt ttagagagat ttaacatgaa 360
agattgttca ccaagtgtag ctcccattg 389

<210> 17348
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 17348

agcttaagcg tcttggtcaa tcaccaaatt cgttcttcat ggtataaaaa cgttcttcta 60
 attggtatta tttgaaatag aagttcttat ttgaagcatt tcgtatgttt taattatgtg 120
 ttgtaggatg tcaagtgccg gggctgcttc aacatgtaag taggatcttt ctttttattt 180
 gttttaatgt gattataatg ataatttatg taagtgcagt taatttggtt atgtgccttt 240
 ttttttaatt tggatgcaga acaactgtgt ttagccactc ccagacagtt gtagtatgtg 300
 gtaactgccg gactgtgttg tgccaaccaa cgggtggacg ggcgagggtg accgaaaggt 360
 gctcttttat gaagaatgga gattgaatg 389

<210> 17349
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 17349

tgcttaagaa gattgctaaa gaagctagag cttatctact acatacttct ctaatagcta 60
 agctcacctc cttgagatga gaagctagaa cttagctaca cacccttat aatagctaag 120
 ctcaccccca tgacaaaaaa catgaaaata cacaaaaaag tccttactac aaagacaact 180
 cataatgccg cgaaatacaa ggctaaaacc ctatactact agaatgacca aaatacaagg 240
 cccaaacgaa ggaaaaacct attctaatat ttacaaagat aagcgggatc atacttagcc 300
 catgggctcg aaatctaccc taaggctcat gagaacccta ggcctaccc ttggatctcc 360
 agcccaatct acttgagtc ttctacccaa tgcccttgca cgataggatt gcatcagatg 420
 attaggatat tttatgcaaa acagggcatg c 451

<210> 17350
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 17350

tagcttcaat ggctcaatga gcaatgggaa atgatagtca atcaacaaat aaagataccc 60
 ttttctataa gaggctattg tgataaagat ttatatgata tgatccctat ggaagcaggg 120
 cacattttgt ttggtagacc atggaaatth gacaagaaag caatccataa tggcttcacc 180
 aatgaaataa ccttcaccta tggaagcaaa aagttcaaac ttgttccctt tacaccttca 240
 caactggcca gggatcaagt acaataaaaa ttcaaaaggg atgagcacia gaatagaaaa 300
 agataagaag aacaaccttt aatggttaag gaggagtgtg aggaggtaag tgtctactct 360
 aagagattag ctaagaagga aa 382

<210> 17351
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17351

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 tacctcaaat agtggacaga aaatttttct tcaactgtggg gctagggact aatccttgcc 120
 ccanaaacac aacatgccaa gggccaagta ataacaccaa atttgcagcc tcagtgaaca 180
 acattttcttt tgcacttcca tcactgtgtt ccatcatgca ggcatactat tctagccagg 240
 ccaatgggggt tttcaagact gattttcctg ccaccccttt gaaccctttc aactacacag 300
 gaacacctcc aaacaacaca atggtcacca atgacacana gctgggtgggtg ctcaagttta 360
 acaccagtgt ggagttgggt ctgcaggaca ctagtattct tggagctgag agccatccct 420
 tgcattttca tggttatgac 440

<210> 17352
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17352

gaaattaaag atattcaaca tggatgatca agattgtttc tagagtctta ggaaggggtat 60
 attacatagg aagggatttc ctatttgaag tatcaaaagg tttggccaag aaatttaagt 120
 taaaaagctt tattcaagag atttactctc tggatcatca ttaccagagg atgtaatcga 180

ttaccactgg ccaaagatga tttaacaacag ctattaaaat ttgaattcaa aatttgcact 240
gtgtaatcga ttacacatat atggtaatcg attaccagca gtttctgaac attgtaattc 300
aaatgttaga gcttgtaatc gattacacac atactgtgat cgattaccag aggagttttt 360
cagagaacat tctcaacagt cacatcttgt tatctatttc ttaaattggcc atcanaggcc 420
tatatatatg tgtgac 480

<210> 17353
<211> 393
<212> DNA
<213> Glycine max

<400> 17353

agcttgttca ggaattatct gtatgggttg gatgttgaat tctggttgtt cctgggtgtg 60
agatgatggg acatgtttgt gaaccagaag cggaagtctt ttttggtgag gaagccatgg 120
aaaaacagag cgtttggaat gatttcgtaa atctcagaaa actattggga aatgctggtg 180
aaaacacgaa tgccacgaaa atataaattt gaatgaggaa tgtagagggc cgtgtgaagc 240
aacggtcgaa tttgccttgg ttcagtagtg aacgtgctat taatgttaag tgattcgttt 300
gggcacgttc agatatcagt agttgctaca attcctctag cagacaaatg cccagcttgc 360
ccctcagttt ttcaaactga tttgcatcca aag 393

<210> 17354
<211> 385
<212> DNA
<213> Glycine max

<400> 17354

tgctttgaac atgttgcaag caaacttgaa cagcatcatg tactctcaca aagtaccatt 60
ctttgcctat caactccacc agaccggatc tagacaaggt aagcagaact tctggacttg 120
gattggatat tgcaatctgc aagaagaata agctcaagtt ggttggtgga gacattgcaa 180
acctgtggcg attatttcaa gaattctaac agtagttgaa actttggtat cttattctac 240
ctgaatgtcc cgtaatttgt actcctgata caagtctttc aaagcctgaa cagcactaga 300
atctatgtag gtcacagctg cagtcatcac aagtcataac cacatgatta gaagaaagta 360
gaattatcat cattatccct ttcac 385

<210> 17355
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 17355

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tgcttttagg ttgactagtt cattgacatt cagcaattga aggagatata catctatctc 60
aagaaaagaa aaatcataaa agacagtgtg cattaaaaaa aatcaccttc attggctgca 120
tcaacttgaa caaccatgca tggtctgaag aaggaagaac tggcggaatc ttcattttct 180
tccagtccat gctaactaaa tcagttgatg ctgaataatc cctgataagc acatcaatat 240
tttgtactct attcttaaca ttccttttct tctgagtttg atcaatcacc tctctcttg 300
cattatcttt caatgcaatc ctcttatcaa gactcaatcg tttggccttc ttattctggt 360
ttctaaccac attatcacia tttccat 387

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<210> 17356
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17356

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ntaattgana ttaagttatc taattatgta agttcttgat ttaatcccta ttttctctcc 60
ccctttggca tcaacaaaaa gccaaagtgc ataacacata taaaacatac ataatgact 120
aatcatacaa gacatttatt gaaaaatcta aaccgatcat gaagcaaaaa acatgaaata 180
tccaaattaa aatataaacc acataatcat ataacataat ttatagatgt tcagttatag 240
taagcaaata gtaaaagaaa tactaaatgt tcaaagtgtc taatattaca gatcatttgg 300
ataagtcact agcatctagc agtcctaatt ctcttctaatt gttgaagaag gaatctttat 360
ttagtgtcta tgagaagatg tctgcaagtt gatttttagt atctacaaat tcataacaac 420
atcacctggt agaatatgat ctctaata 448

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<210> 17357
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 17357

agctttctta agaagattcc taaaaaagct agagcttagc tacacatacc tttctaatag 60
 ctaagctcac ctccttgaga tgagaagcta gatcttagct acacaccccc tataatggct 120
 aagctcaccc ccatgacaaa aaacatgaaa atacaaaaaa aattccttac tacaaagact 180
 actcaaaatg ccccgaaata caaggctaaa accctatact actagaatga ccaaaataca 240
 aggcccagac gaaggaaaaa cctattctaa tattttacaaa gataagcggg ctcatactta 300
 gcccatgggc tcgaaatcta ccctaaggct catgagaacc ctagggcctt cccttggatc 360
 tctagcccaa tctacttggg gtcttctacc c 391

<210> 17358
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 17358
 tgttgaagga gaatagataa ggagtttatg aagaggttgt ggtcacggca gtgtttggga 60
 aggaagaact ccaagacaaa atcaaaatgg ggataagaag aagtccttag aggaatagcg 120
 acggcagaat gcaagtcaaa gatgttggcg tggtagagaga gaggatattc ggcttgggtg 180
 aaggcgggta tgtccatagc aaaacagggc ttggcagttg tgaaggccgt accgacaatt 240
 ccttgtccgc ggaaaagggtg gtgctgagag catgcctcct ggaaccccaa tagctggggc 300
 tgaccatccc ccacaaaaca cgctctgtcc acaatcgaca catagttgtt ctcacccctt 360
 gaatgccac aatccacaca tagttgttgg acgcaaggag cccatgtcag atgccaaggc 420
 acat 424

<210> 17359
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17359

tctttgagaa aacttccttg agatgttaga gcttatctac acacaccctt ctcatgacta 60
 agctgacctc cttgagaagc tctcttaaga agattcctaa agaagctaga gcttagctac 120
 acacaccttt ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180

caccccctat aatagctaag ctcaccccta tgccaaaaaa acatgaaaaa aacaaaaaaa 240
gtcgttgcta caaagactac tcaaaatgcc ccgaaataca aggctaaaac cctatactac 300
tagaatggcc aaaatacaag gcccaaacga aggagaaacc tattctaata ttacaaaaga 360
taagcgggct catacttggc ccatgggctt gaaatctacc ctaaagctca tgagatccct 420
anggccttcc ctgggatctt tgggccaata tac 453

<210> 17360
<211> 380
<212> DNA
<213> Glycine max

<400> 17360

agcttaataa atcaatctat ggcttgaagc aagcctcctg ccaatgggat ttgaagtctc 60
atgatgtcgt cacttcattt ggctttgaaa agaacatcat ggatcaatgt atatac'caaa 120
aggctcagtgg gagtaagatt tttttcttgt gttatacgtg gatgacattt tgcttgcaac 180
taatgataag ggtttgctat atgaggtgaa ataatttctc tcaaagaact ttgatatgaa 240
ggatatggga aatgcatttt atgtcattgg cattaagatc catagggaaa gatctcgagg 300
aattttgggt ttgtctcaag agacttatat taacaaattt ttagagagaa ttaacatgaa 360
agatgttcac caagtgtagc 380

<210> 17361
<211> 396
<212> DNA
<213> Glycine max

<400> 17361

tgtctatgca agcttataat atatcgatac gctcgaaatt aaacattgga aactctcggg 60
aaattcaaatt agtcataact tttcacacgg atgtccgatt cggg'gcata atatgtcgag 120
aggctcgaaa ttgaacaacg caagctcttg agaaattaga ctggtataac ttttcacacg 180
gaagctctcg tgaagtccat atggtcataa cttttcacac tgagggtccga ttgatgttta 240
taatatatcg atacactcga aattaaacat cggaaactct gtagaaattc aaatggtcac 300
agcgtttcac acggatgtgc gactggggcg catgatatgt cgagaggctc gaaattgaca 360
aacggaagct ctcgagaaat tcaaatggcc ataact 396

<210> 17362
 <211> 467
 <212> DNA
 <213> Glycine max

<400> 17362

tgaatcggac atccgtgtga aaagttatga ccatttttat ttctcaagag cttccgttgt 60
 tcagtttctga tcctctcgac atattatgca cccgaatcgg acatctgtgt gaaaagtcac 120
 gatcatttga atttctcgag agtttgcgat gtttaatttc gagcgtatcg atatattata 180
 accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240
 ttgttcaatt tcgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300
 ttatgaccat ttgaatttct caagagcttc cgtgtttcaa ttctgagcgt ctcgatatgt 360
 gatttgccctg aatcggacat ccgtgtgaaa agtatgtcca tttgaatctc tcaagtgtct 420
 ccgttgatca atttcgagcg tctcgacata ttatgcgccc gaatcgg 467

<210> 17363
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17363

agcttttcaaa cccatgtaat ctccctaatat ctcccacact ttgtgggttg ggccattctt 60
 ggatggcctt gatttttctca ggggccactt ggaccccat tctaccaact acaaaaccta 120
 agaaaactat attatctaca caaaaggtag acttctctat atttgcatag aaggtgtttt 180
 tcctaagaac agaaagaact tgtctgagat gtactaagtg atcatctagg ctctactat 240
 aactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttagacat 300
 gatgcataag cctcataaag gtgcttggtg cattagttag ccctaaaagc atcactatcc 360
 attcatataa accaaacttg 380

<210> 17364
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 17364

actccgctgg atgcaacatg ggagagggaa tttatcacga gttgatgcgc tccatgaaag 60
gcaggatcgg atggataata gagaacacac tgaagataac aggaggagaa gagggaatga 120
tggtgttcct aaacaaaacc gaattgatgg tattaactc aacattcctc catttaaagg 180
aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
caacaaactat gatgaggacc agaattgtgaa tcttgccgcc acggattttt ccgactatgc 300
tcttgtgtgg tggaacaagc taccaaacga gagagcaaga aatgaagagc caatgggttga 360
tacatggacg gagatgataa atatcatgac gaagcg 396

<210> 17365
<211> 402
<212> DNA
<213> Glycine max

<400> 17365
tgaagggtgcg taccctcacc attttatata gaaatctctg gtaatgtgtc tactattatt 60
atgatcatct ctttatccgt cattggagggt gccacttgag cttgctaggt ctctccacct 120
ttgggcttat tatttgaaag attcgtgccc ctttttgtac atgttctgta gttgtatcct 180
atccagagcc atatcagaat tgtactgata ttgcctaacg atggcaaaca ttaggtcttt 240
ccaagaatgg attcaggaag gttccaagtt agtttaccag gtaccccagt aagactttct 300
tggaagaaat gtatcagcag ttccatcatct tttgcgtatg ccccatctt ccaacaatac 360
accttttagat ggttcttggg gcaagtagtc cccttgtact tg 402

<210> 17366
<211> 418
<212> DNA
<213> Glycine max

<400> 17366
agctcgaatc ggacatccgt gtgaaaagtt atgagcattt gtttttctca agagcttcca 60
ttgttcaatt tcgagcatct cgatatatta taagcctgaa tcggacattc gtgtgaaaag 120
ttatgaccat ttgaatttct caagaggttc cgttgttcaa tttcgagcct ctcgacatct 180
tatacgcccg aatcgaacat ccgtgtgaaa agttatgacc atttgaattt gcaagagttt 240
ccgatgttta atttcgagcg tatcgatata ttataagcct gaaacggaca ttcgtataaa 300

aagttatgac catttgaatt tctcaagagc ttcgctgtt catttcgagc cttcgacata 360
 ttatgcgccc gaatcggaca tccgtgtgaa aagatatgac catttgaatt tcgcgaga 418

<210> 17367
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17367

atcttcaact tcaattatga gttgagcagg taaaaaagat tcgtcttcaa actcttagag 60
 gtgactctga gtgtttgttt atggaggagt ccgagtcaat ttatgattat ttttctcgag 120
 tattggccgt agtcaatcaa cttaaaagaa atggtgaaga tggtgatgag gtgaaggtta 180
 tggaaaaaat acttcgaact ttaaatacaa gttttgactt cattgttacc aacattgaag 240
 aaaacaagga tttaaagacc atgactattg agcaactcat gggttcctta caagcacacg 300
 aagaanaaca aaagagaaaa attaaacaaa aggaggctac ggagcaacta ctacaactca 360
 acgtanagga agcaaactat gcc 383

<210> 17368
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17368

agctcncaac ttacttccaa tgaacaacct tcttggttaca ttatttgaaa tctttgaagg 60
 taatttaatt gtcaattaca aaagtacata aaggctctca attttggtgg ttgctctctc 120
 tttgatgatt cactcaattt ggagtgttc ttagttcaat agcttttaag gtggttggcc 180
 cctcgcttct tgattgaaat tcttcaatgg atgacatcaa tcttcctttc caattcccta 240
 tatggaaact cacaacaag aaaacaaaga gacaaacaat aaccaaagac caaaaaatta 300
 aatgaaagct aaaccaataa atttttaaca agaaaaattt tcaaggatta ttcgacaatt 360
 aaagcaatga aaaggacata gaagcaagct aggactcaaa gagaaactta gaatgactct 420
 agagtag 427

<210> 17369

<211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17369

agttcntgtt gtcnncaagc aaatgttgga agaggggtgta acgcctagtg ctccaacttt 60
 tgtgagtgtt atagatgcct gtgcacagga tgcgcttata cgaagaggta aacagggtgca 120
 tgggtcaaatt attaaagggtg acaaaagtgg taacttgttt aatgtgtatg tgtgtaatgc 180
 tttgattgac atgtatgcta agtgtggaga tatgaaatca gctgaaaatt tgttcgagat 240
 ggctcctatg agggatgtgg taacttgga cacattgatt actgggtttg cacaaaatgg 300
 ccatggagag gagtacttgg ctgttttcac aaagatgata gaagccaaag t 351

<210> 17370
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17370

ctaagcttgt ggaagccttg agcaacaaac tggtgggttt ttggcaagct ttgaagacct 60
 agccatcgta aaaaaaaaaag gtatgattta tcattgtttt gtttgcagta gtggccatgc 120
 tctaacgagt gcgtaccaa gttatcttca gttgatctaa catgttttgt ctgtggagca 180
 ttgattcttc aagggaatga atggtggtgg acccttgaac gtagtcaaga agggaagggt 240
 gatctcgaca atacaaagca cgaaagggt aatgttgatg gccgaatggt aggaagaatt 300
 gtaccaatat ttgacgaggt gaaggtactt gtaccaagat catggatggt ctccaacaaa 360
 acatctcaat taaacctcan aactgcgatt agtgacttca gtttggttgt ctaa 414

<210> 17371
 <211> 235
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17371

tggcnttgaa ataaaaatnt gtaggtgtng caagggtttg tggtagtgac ttatntgntg 60
 agaaanatat agaactttgn tnttatatgc agcaacctgc agcaattgac cagcctgaag 120

cttactgctg ccatatttac aatagacctc ctcaacctca gcagcaaat caaccacagc 180
agaaccattg tgacctttcc cgcgacagat acaaccctgg atggacgaat cacc 235

<210> 17372
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17372

agcaattctt agagaatcgg catgatatgc gctctaaata caatatccgn gcnatttttag 60
acgcngcatg taacttgatg gctaagggtgc caatgacaag aaataaaatg attttgctca 120
acattcaaaa tgatgtggca caatatctcg agatgtgcta caaggatgca tctcggcttt 180
ggcatattca atttgggcat ctttaattttg gaggattata gtttctctcc aagatagaaa 240
tagtgagagg attgtcttgc aatagtcacc ttgatcaagt gtgtgaagga tgtctacttg 300
gcaagcaatt taagaaaaac atttcaaagg agtctaactc aagagctaaa aaattgttgg 360
aacttatgca tatagatgtg tgcagttcta tccagccgta gtcacatgga 410

<210> 17373
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17373

agtttctaat gngnncataa tgattgcaga agcataactta gttctcccga aatcctcctg 60
caaaaactgc agcataatgt cttgtgggtc tgtggttctg aagaagcttg gtaaacttca 120
acaaaatttc tttgacgcca ggtaaccaat cgatggcagt ctccaaatag ccatttgta 180
tatcagtcga ctctgcaagc ataggcatgc aataaattga gtgcatttat gaattcatgt 240
tatatggaaa atcacgttgc aacatcagtt agtataatat ttatagatat cgtctttaat 300
ttcatgttaa gaaattgatt ttgaatacac ggtcaatttt gagttcaaca aaaaaaaaaac 360
atcaaaaaat aaattacttt act 383

<210> 17374
<211> 378

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17374

agcttgtggg atngagttta gtttcaaaat ccgtgcctcc tccaaagcga acaggggtgga 60
ttggaagagg aaattgtcac atggaaaagg ccaccataga tctgaagcgc gatygaaagg 120
atctgaacgg tcgcgttcat caactcccct gctgogtcaa gcacgactgt cccgcctccg 180
tttcccacta tttcaaacc taacacaaat gtgttgggga agacgagggt ttaccgttac 240
aagaggctca ttttagaggc aggttactcc aaggaacaac actccctctt ccgcacgggt 300
actctggtac gctatgcctc tctcaacaca cgcattgtcag tgaatgttat ctgctcctat 360
gtatatgtgt gtgtatgc 378

<210> 17375
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17375

catctaagct tcaacgatga .aacaaggctc acttacagtg actgagtttt tcaactcgtct 60
acgtgtaatt tgggatgaga ttgagaactt tagacccgat cccatctgtt cctgtaatat 120
caggtgttcc tgcaacgcat tcaccattat cgcgcaacgg aagctcgagg atagagccat 180
gcagttccta cgaggcctga aggaacaata tgctaataatt cgttctcatg ttctcctcgt 240
ggateccata cccgctatct ccaaaatatt ctctatgta gctcaacagg aaaggcaact 300
actgggtaac accgaaccag gtattaactt cgaacccaaa gatattctcca ttaacgctgc 360
taagaccgtn tgcgatttct gtggacgcat tggatcatgtg gaaagcgcgt gttataagaa 420
gcatggag 428

<210> 17376
<211> 375
<212> DNA
<213> Glycine max

<400> 17376

agcttgcact tctcaaagaa gtcaacaagg agatcagcag cacggtcacc atggtaaggg 60

tcaatgtgga agccagactt gccatgcaca atgatctcag caggaccacc attgcatgtg 120
gcgaatgttg gcaaccacaca agtcatggcc tcaaccactg tcaaaccaaa agcctcgtat 180
atagccggct gcacgaaagc tcccttggtg tgcgagatca cacggtacag ctctccgttc 240
ctcacacggt tcatctgaga tgaaatccat ctgaattgcc cgttcaactt gtaggtctcg 300
atcaggccgt acatcttctt catctcggcc ttctcttcca agtccttcga ctcttctc 360
ctgtctccgg caaca 375

<210> 17377
<211> 346
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17377

aactaacgct gctctaattc ccgcaaaaag acgatcattc cagctctacc agcgaattct 60
tcaaagtcaa gtaacctttt ccagtggtcc cccacaatta attcatagtc atataacgat 120
gccctctcag ctagaatcta agattatgga aaataccaaa agcgagttag aagttgcaag 180
aaaccaccac aaaatcgaag tcacatttca agcatttaag tattatatat acaagtatgt 240
aacattaaca caccttatcc agcaaaggca tggtatcttt ctgtgctnta tgtgtatgtg 300
agaggaaagc ataagctcta tctggtaata tcatctacag ctgcac 346

<210> 17378
<211> 375
<212> DNA
<213> Glycine max
<400> 17378

tctagtcttc ttcacatagt ccgcctttgc ttgaccttct ttatgcttaa aaacagaaac 60
attaggcata ggcaaaagat caagaggagt tagtgggtta aaaccataaa caacttcaaa 120
aggagaacaa ttagtggtgc tatgaacagc tctattgtaa gcaaattcaa catggggtaa 180
acaagcttcc caagttttta agttcttctt caaaactgtc ctaagcaaag ttcccaaagt 240
cctattaaca acttccgttt gcccatcggg ttgtgggtga caagtgggtg aaaataacaa 300
tttagtgccc aacttgctcc acaaagtcct ccaaaaatgg cttaagaact tagagtcctt 360

atcactaaca atgct 375

<210> 17379
<211> 365
<212> DNA
<213> Glycine max

<400> 17379

gtctcagcat tgtcatgtgc tcatgcaaca attgatatcc ttggctttac gagacatcct 60
gccgatacaa agacaggtta accatatctc gcctgcgcta attgttccat gctatatgta 120
gcacactcat tgatcctgtg aagtctgatg acctgtacaa tgaggccgca gccatactgg 180
gccagttgga catgatattc acccctatgc tttctttgac atcatgatta actcgataga 240
gcatctgtgc agagaaacca aacgatgagg gcctgtttat ctacagagga tgtacccggt 300
agaacgatac atgaagagcg taaaagggtg caccattaat ctatatcgac tacacacatc 360
cattg 365

<210> 17380
<211> 384
<212> DNA
<213> Glycine max

<400> 17380

agctttacac gtatcattta agtgtatgga ccatatcgta gccaaagggtgc tcatcgataa 60
tggttccagt ttaaactgta tgcctaagag cactttggag aaattacat tcaatgcctc 120
ccacctaaag ccgagttcaa tgggtggttcg tgccttcgac ggcacccgcc gagagggttag 180
gggacagatc gacctccag tacagatagg ccttcacaga tgccaagtta ctttccaaat 240
aatggacatt aacccccct acagctgtct gttgggggtgt ccgtggatcc actcagtggtg 300
agttgttccc tctacacacc accaaaagtt gaaattcgta gtggaagggc atctggtcat 360
cgtatcaggc gaggaagaca tctt 384

<210> 17381
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17381

agctttgtga agctcctgtt ttatctttac ccgattttac tcaaccattt gaagttgaat 60
gtgatgctag tggagttggc attggggctg ttttgatata aaacaaaagg cctatagctt 120
atttctcgga gaaattggga ggagccagat tgaactattg cacctatgac aaagagttct 180
atgccattgt gagagctctt gatcattgga atcattattt gcgttctaata cactttatat 240
tgcattcaga tcatgagtca ttgaagtata tcaatgggca gcagaagttg agtccaaggc 300
atgctaaatg ggttgaattt cttcaatctt ttaatttctc ttcanaatac aaggatggta 360
agagtaatgt ggtggctgat gcactt 386

<210> 17382
<211> 419
<212> DNA
<213> Glycine max

<400> 17382
tcgacaaaa tcaaatgata ataacttttt actcggttgt ccgaatgaat accgtattat 60
atcgagaggt tcgaaattga caacggaggc tctgagaaaa tccaaacgac aataactttt 120
tactcggtatg tcagattgtg tcccatagta tatcgagatg ctcgtaattg aaaccggatg 180
ctcgtagcaa attcaaacga caataacttt ttactcggtat gtccgaatga atcccataat 240
atatcgagac gctcgtaatt gaaaacagaa gctctgagca tattctaattg acaataactt 300
tttactcgga tgtcagattg agtcccgtaa tatatcgaga cactcgtaat tgaaaacaga 360
agctctgaga aatatctaac gacaattact ttttactcgg atgtctgaat gaatcccg 419

<210> 17383
<211> 376
<212> DNA
<213> Glycine max

<400> 17383
agcttggttat caaagtacat gaactatgct agtagaattc attttcaggc agcaaaaaga 60
gctcttagat atgttaaagg cacaattgat tttggaataa gataccatta tgttaaaaac 120
ttcagacttc atgggttattc tgatagtgat tgggctggat gtgctgatga tatgagaagt 180
acttcaggtt atcttttttag ctttggttct ggaattttct cattgtattc aaagaaacag 240
gaagtaatag ctcaatccat agcagaagca gaatatgttg ttgcaactgc tgcttgtaat 300

caagctctct agatcagaaa gcttatgaca gaattgcata tggaacaaca agacaatacg 360
 caaatatttg tcgata 376

<210> 17384
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17384

tccgcttatt agtgaacaat tccttcttta atttagtata tcttggaatt cgctntattg 60
 catccagcag aggtatgttt acctctactt ttctaaatgt ttcaaagatc tctttctatg 120
 cctcttccat ttttttggtg gaaattgctc ttggagggaa tggaagaggg atatgctgct 180
 tctctttaga ttcacctgga tagaaattgt taggtaactt actctttaaa tttttgtcat 240
 catctttttc tggagtagag tgaggttggg caggttcatt ggtggatgag gaagatgcta 300
 ctgggtgagg tccttgacac tgctttcctg acctcaatgt aatgacactc acattnttgg 360
 gattctggac agattgagaa cgtaatctat cagaattctg ggactgttgt tgat 414

<210> 17385
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 17385

ttctgcttta tatggttaca aaccaatcaa caacaatccc ttgatggcag gtgatacaac 60
 agttgaagca gtagactaca ccatcaggac tcgagaggaa attgcaacaa ttttacacaa 120
 gaatctcagg aaagcacagg agaggatgca gttgtatgct aacaagaata ggacaaacaa 180
 agaatttgca gtgggagatt gggatatatt gaagttacat ccatttaaac aacagtcaat 240
 acctaaacta gcgtttcaca aattagttgc acgattttat ggtccttaca gaattgtaga 300
 gagagtgggg aaggtggcat acaagctaga cttaccagct caagctcgca tacataatgt 360
 attccacatt tccttg 376

<210> 17386
 <211> 424
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17386

ntntgaaaag acacatttct tcaaaccatt ttgaaaaggc acaaaggacc tatatatatg 60
tgtgtttgac ttcgaaaagc aagaaagaga tattctaaga gaacttcatt gtcaaagtgt 120
ctctcaacaa ctcttgggca aacacttgca aatctattga gagttcatct aggaacatca 180
aattgtatta tccactctaa aggagagaaa tctttttgtt catctcagaa aatcaattgt 240
aatcaataga ctggttgtct cttgaattgt gagtttctctg aacacaaggg aaagggattc 300
cttaggtgtt cagatgttgt aaaaagggtt ttacaaagtt agtgaaaatc tcaagtgggt 360
tgcttgagga ctggacgtan gcacgggaag taaccgaacc agtataaatt gagtttgcatt 420
ttct 424

<210> 17387

<211> 427

<212> DNA

<213> Glycine max

<400> 17387

agctctctaa tccatataaa ccataccatg ctcttaacat gtaatattgt cttcagccat 60
catttgaggaga gctagtgcaa atctttctct atttactaaa tcatctatgt aacatctgta 120
acaattttacg gacgtataat gctgccactt aacatgacat ctgatgatga accaatttac 180
gtaaatgcta agcagtacca tggaatcatt agacgtcggc agtcccgtgc caaagctgta 240
cttgatcaca aattgactaa acgtcgcaag gtatgattcc tcatatgggg gtatcccaca 300
tattttttca ctcatattaa tgaacattat agtctcagct tcaactggcct tgaaaaaaag 360
taggtatgat aggggtgtct ggcctaactc ttgtagaaaag tgatagatta tctctttcaa 420
gcaacgc 427

<210> 17388

<211> 374

<212> DNA

<213> Glycine max

<400> 17388

agctattttta ttgataggcc caccagtaat tgctgcacca gctagtaaat aactggcact 60

tgaagcatca ccttcaacaa aagcattgcc aggagacctata taggaaaca tgagtcttaa 120
 tttcattgca ttttggatac taaaagtgat gtaacactaa aacatagaaa cctacttgta 180
 cttttgacct ccatggacca agaacctatc ccaattacca ctgtgttcca cagaaactcc 240
 aaaacgctcc atcaacttca gagtcatttc aacatatgga acagaaatca gtttatcaac 300
 aatctcaatt tccacatcac caagagctaa aggagctgcc ataagcaaag cagtcaagta 360
 ttgactgcta actg 374

<210> 17389
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 17389

gcccttctga tccgaagagg ctgacttttg cggatttcgt cgagagctta tttgacctca 60
 tcaacgtgct ccatcatctc ttcgaactcc tgcgcctcca tcagcgtcca cgtagtcgga 120
 atccccctcg gggcgctcg cttcgccctc ttgcactccc ttgctacgcc tgcgccggag 180
 ccgtatccga agtcgccgat ctccgaatcg aataatgacc aatgctgcga ggaccattcc 240
 tgggatgaga acgctaattc gcagaaaggg tcgtcaatct cctgagataa cgaatccctg 300
 actggcttcg aaacgtcgtc gattatagag gacgatcccg attacgtacc cgagaggggt 360
 cctttgctgc tggcgtaggc gcggacgatc attttacatg gagatcg 407

<210> 17390
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17390

tgggtctaga catgtctata gcattctcat gagctagttt atataaggag ttagaaattt 60
 tgtttgtctc tctataaata tgagaacctt gttggattaa aataaaattg gaaaataaat 120
 aaagaacttt aacctatata ctatgtgatc aatctataaa atgataatca taacatttca 180
 attatataat cattaagaaa taagggtgga catgggttag gttgctcggg tttaaaaaat 240
 atttagattt aaccaaatta atattaatca gaaaaaaatt atatagaatt aaacaaacaa 300
 attatatatt atagaatcat acaacataaa aaagtatatt ttttctaaaa tggatataggc 360

ttatgttggt ttgggtctcc gtacctagat ctgataattg aattga

406

<210> 17391

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17391

taagagcaat ntcttttttt nttttatcat tnnctttgtg tngatnnaat ctcaacagtt 60

ccatttcgta ttctgtaac ttcccaaata gtgtagcaag agacatgtta gttaaatctc 120

gtgactcagt aatggttggt accttagggt gccattctct acttaaacad cttaatactt 180

tatttatgat atcttcattt ggaaaaattt tccctaaaga tgcaagatga tttattatat 240

gtgtaaacct cttttgcattg tcttgatata tttcatttga attcattcta aataattcat 300

acttatgagt taatggattt atcctagata ttttcacatc tgttggtgcc tcattgtgta 360

cttgtagggt atcccatat 379

<210> 17392

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17392

ctccaaaaag aattgcaaga gtcattgttag cgagatcttt cgattatgca atngtagtta 60

cctttgggtg tcattgcctg cttaaacadc tcaacacttt gttaatgaaa tcttcattat 120

gaaatatttt ttctaattgat gcaagatgat taactatatg tgtaaactctc ttttggatat 180

cttgtatggt ctcatcttga ttcattctaa acagttcata tttatgtgtg agagtattta 240

ttctagatct cttgacatca attatgcctt catgggttac ttgtagtgta tcccacattt 300

cttttgcatt tttacaattt gaaactctaa aatattcatc catgcctaata gcagaggtaa 360

ttatattttt gacctttana ttatattgaa cctttcttct ttcattctca tcccattgtt 420

ctctag 426

<210> 17393

<211> 398

<212> DNA
 <213> Glycine max
 <400> 17393

atgagattct ttcttggcat tgtatTTTTg cagattccag aagggatttt cttgtgtcaa 60
 agaaaatatg ccactgatat cttgaagaag ttTgcaatgt ctgagagcaa acatgtgaaa 120
 agtccaattg ttccaggttt taaaattaat agagatgttg atggTgcagc tgtggatgac 180
 acttatttca agcaaattgt tggaagctta atgtatctta caactacaag gccagatata 240
 atgtatagtg tgagcttaat tagcagatat aggtcaaaac caatagagtt gcatttaca 300
 gctgctaataa gaatattaag gtattttaaac ggaaccacta gctacgggat attctacaag 360
 aagggagggg cagaagactt gtttgctttc acggattc 398

<210> 17394
 <211> 424
 <212> DNA
 <213> Glycine max
 <400> 17394

tgTcgggttc aacttcaatt aagtgtcTcg ggcacTctat ggactgtTcg aaaaggctca 60
 ggTcatcaaa tactacgcT cttttaaaagc acaaagcTgag gatcagaacc tcaaccctac 120
 gttctttttaa aagactgcga tgggaaaatt acagaggaca ggaatccctg ggggaaacca 180
 agaagaacac acaaaaataa aaacatgcag cgacttccTt aattgccccT gatctcaagc 240
 atagtatcgc ttgacaacgt cagagtttac gggTgaaggT agctccttgt catccatgtt 300
 ggcgagcacc agggccccTc cggagaaagc cttttttaca acgaaaggcc cttcgtagtt 360
 cgggacccac tttcctttgt tgtctttcag agcttgggag actttcttca gcaccaagtc 420
 ccct 424

<210> 17395
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17395

agttttcttat tctcagctga tgaagatgaa ttcgtggcta cttcatgcac tcctctaTtg 60

acaatagcat catttctggc actaaattgc tgggagttgg aagccatctt ctcaattaaa 120
 tttttggctt tagcaggggt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tgttactgag tccttcataa aaatattgga ggagaagctg ctcagaaatc 240
 tgggtggtgaa ggcaactggc acatagtttt taaatctctc ccaatattca tattggctct 300
 ctccactgag ttgcctaagt cctganatat catttctaata ggcctgggtc ctggaagcag 360
 ggaaaatttt tt 372

<210> 17396
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 17396

agctttcctg ttggatcaag tggcctcaga ataattaaga aggggggggtt gaattaatta 60
 ttaacgtgtc ttgactaatt aaaaatctat cattcttaat gttactagat tcaattaggc 120
 ttttactact aagtcaagaa agtaaagaac agaaatagaa acttaaccaa aagtaaaagc 180
 gataattaaa agtacgcagt ggaaattaaa gagtgtaggg aagaagaaga caaacacaag 240
 atttatacta gtttgaccac aaaccgtgcc tacatccagt cccaagcaa cctgcggttc 300
 ttgagatttc tttcaacctt gtaaaatcct ttacaagcca aagatccaca tgggatgtac 360
 cctcccttgt tgatgc 376

<210> 17397
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17397

gcgaactatg aaactcaagc tgagtctgca tgcatttat ngattgttaa tgtattcctg 60
 ttngttatct ctacttaatt ctgcttaaca aaattaagtg tttgttagca tgacgaatag 120
 tagatcgagt caaaagtcac aactaacat catctaatta cacatgtaat tagttattgt 180
 tgttgaagtc acttctttta tataaagtgt ctgtgtctat atttttatta cacaaacttc 240
 agtatttagt ttttttaatt ttaaagtgtt tttgaatttc tttactttta cttaatctcc 300
 tattaactc cattattttt aaaattattt aaatatctaa acaaaaatta gcctaaaaca 360

ctaaattctt ctcccagaat tatcatccaa ataaaactct cattatttta aaaaaaata 420
cccact 426

<210> 17398
<211> 371 -
<212> DNA
<213> Glycine max

<400> 17398

agcttcttgg aagaatcctt tcccactttt tcttccctt tggccttga agacaaggcc 60
ttaccatcct tctttttctt ttggttttct agtttttctt cctcatccct cttatctttc 120
atagttatct gatctttggc tacctgtgaa ggtgtttaaa gatgcaaac aaactctgtt 180
ccaagatggg tgaggggttat ctcatagtt aggccattat agattatttt cctatgatat 240
tgccatggcc tacctaagag aaggtgtcct gctccataa gaactacatc acaaactcact 300
tcatecttat atgttccaat ggagaacggc actttcactc tgtgattgac tatcatctcc 360
ccttgetcat t 371

<210> 17399
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17399

acctagcaag actcacgctg gaatcatcta cccgatttct gacggttatt gggcgattcc 60
agaccaaagtg gctcctaaga tgataggact gacagagacc aagaatgaag aggatgaact 120
gatgcccaca acagagcaga acaattggcg agtatgcatt gggcatagga ggctgaattc 180
agcaaccaca atagatcatt ttcccttgcc ttccatggat caaaggctng accgcttggc 240
aggtcaatct cattactgct ttctcgatgg attttatggc tgttggcaaa ttcatattgc 300
tcttgacgat ctgagaaaga ccacattcac ctgtccctta ggcactattg cctatatgag 360
gatgcctac aacctatgca at 382

<210> 17400
<211> 337
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17400

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gccaatgata atactaccaa cgacactatg gatacatcgc atcaaattggc ttcccatagg 120
tcttgacgtg gataatgaca gggtttacaa gcataacott tgctaattct atagccttct 180
gcaatgcata atcacttggg gcaactgaata catgttctat gtcagtgcc ataccaaggg 240
cagggtgggc accaactctg gggactgcat ggctcaccat ggtcagcatt tctggagcgt 300
tttactgtat gcaagtgan c ttgcatgttc tctcatc 337

<210> 17401

<211> 409

<212> DNA

<213> Glycine max

<400> 17401

agcttatgct gcttatat t acaatagacc tctctaaact cagcagcaaa atcaaccaca 60
acagagcaat tatgtcctct ccagcaacag atacaaccct ggatggagga atcacctaa 120
cctcagatgg tccagcccta agcaacaaca acagcagcct gtccttct tccaaaatgc 180
tggtggccca agcagaccat acattcctcc accaatccaa caacagcaac aacccagaa 240
acagccaaca gttgaggccc ctccacaacc ttcctcgaa gaacttgtga ggcaaatgac 300
tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa ttggctaccc aattgaatca acaacagtc cagaattct 409

<210> 17402

<211> 357

<212> DNA

<213> Glycine max

<400> 17402

agctttatgc atcattcgga gaggctaacg agacaacgag atgatgcgct ccatgagatg 60
ttgcatcaaa tggagaatag agatcataat gaacaggaaa ggaagagaaa agggaaatgat 120
gggtgttcta gacaaaaccg aattgatggg attaaactca acattcctcc atttaaagga 180
aagaatgata cggaggccta cttggagtgg gagatgaaaa tagagcatgt tctctcatgc 240

aacaactatg aggaggacca aaaggtgaag cttgccgcca cggaagtttc cgactatgct 300
 cttgtgtggt ggaacaagct acaaaaggag agagcaagaa acgaagagcc atggttg 357

<210> 17403
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17403

tcaagaatca agatcaagat tcaagactca agattcattt atttttatat tatttaatca 60
 agataagtat gaaaaagttt tttcaaaaac tgagtagcac atggattttt ctcaaaacct 120
 ttttaccaaa gagttttttac tctctggtaa tggattacca gactattgta atcgataacc 180
 agtagcaaaa tggatttgaa aaagtttttc aactaaattt acaacgttcc aattgatttc 240
 aaaaagctgt aatcgattac aatgttttgg taatcgatta ccagtgccctt tgaaagttga 300
 aattcaaatt caaatgtgaa gagtcacatc ctttcacata aaatntttgt gtaatcgatt 360
 aactgattt ggtaatcgat tacttgtgat tgtttatgat taaatcaaaa gatgtaactc 420
 ttc 423

<210> 17404
 <211> 431
 <212> DNA
 <213> Glycine max
 <400> 17404

taaaggagaa agaagataga ggaaactaaa attagtagtg attgttaatt atcttacaag 60
 agagttgggtt attatagttt tatataattg gttgcaagaa taactaactt gtaactaact 120
 aaactatctc ttgtaacaaa gtgatcaatc tgaattaacc atgatcaaac tatatctatg 180
 ttaagatccc ctttcaagct aggaatggat attggatatt cctaacttgg aatacaaaaa 240
 ttgaaaagaa tcaggcagca tggccttagt gtatatgtct gcaagctcat tagcaaaggt 300
 gataggaagt aatttcacaa ttcttttatg catcttctcc cgaactagat gacaatcaat 360
 cttaatatgt tgtgttctct catgaaaaac atgatatggt gctatatgaa gggcagatcg 420
 attatcacia t 431

<210> 17405
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 17405

agcttgaaac acgctcttta aaggataaaa gaggacaaat tagaggcaaa agcggggcca 60
 gaaattctca ccaattcaat aaagagctca tcatttactt tcttgtatga cagaggtgc 120
 atggatgcaa aatacttgat gcacacctgt cttgcttcag gcttttgagc ctgcaaggcc 180
 ttccttgtct cttacagcac cttctgatac acttccagtg tcattctcta caacacaggt 240
 taaatgccgt ttagcaatga gtgaacaata acgaagaaaa tataaaggtc aaacgtaaca 300
 cactaaaagc atgatgg 317

<210> 17406
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17406

agctttgaat ggaggctctg gtctcttgtt gaaactgcat gttttgcata gtcatttgcc 60
 tcacaagttc ttcaaggga ggttgaggag aagcctcaac tatttgttgt ttctgggggt 120
 gttgctgttg ttgttgtgc tgttgctgtt gtgaatgatt tgaccatcta aggttgggat 180
 gattcctcca cccgggattg tacctatttc tagagaggtc atagttgttc ttttgtggct 240
 gattttgctg ctgaggttga gggggctctat tgtagatgtt tgcagcataa gcttcaagct 300
 gttcaattgc ttcatattgt tgacaaaaag gcaaaagtct gtgtggtggt cggcaaacga 360
 tcataacca tatagtctac c 381

<210> 17407
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17407

agcttccatc atttcaccaa cagacatgaa aaccattca aaaaaaatga tgaaggcaag 60
 tgaattctca ttattagttt caagggttagc acaataataa atcttctcta tttcacatta 120

attgtgtgtg agcatcttta ttatctttat catttttttt tctctgtgaa ttcttaattt 180
tcaaactaaa tctaacatat gccaatgtat agtttaatat ataaaaggag aaactattgt 240
aaaatataaa attcaactct tacacataaa aacaaaaaat gtgtagagat agacatatat 300
tcagaaaaaa taattaataa accanaaata acatangaaa aaaacttaca aaacatgatt 360
ntgtgtaggt aaaaccaata aaataaaaact ttctactacct atgg 404

<210> 17408
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17408

tatgtccaaa cggctaaggt ttgtcaatgt' aaaaatgctt gatgtgttca ttcctccagt 60
gtangaattt gagtgcagca caagaaaactt cagttgcttg' aatttcccaa aaatctcctg 120
cacctcccca ccaaatttat tctgtcttaa atccaagatg aacaaatggg tcaagttcaa 180
aagggtctct gggatatccc tcgagaaagt gttgttcccc aagaacaatg catcaagacc 240
agaaatggaa ccaatttcac tgggaatatc tccagtaaaa ttgttaccag aaaggttgag 300
aaccaacaaa ttcttgagc tagcaacctc ctttgggggc ttaccgtcaa attcattaac 360
agaaagggtca agtttttcaa ggctacaatt gattggaaaa gccttggaag gaacaacccc 420
tgtgagaaaa ttct 434

<210> 17409
<211> 422
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17409

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tagtggccaa attgtgaggc gcaagagcaa gaatatgcca cagttgtcat cttggcgacc 120
gggcaaaaagt ctcatcatta gccaatcat attggtgctt atttccaagc acaactaaac 180
gagctttgta acgatctatg gatccatccg agcgcagctt tatagagaac acaaacttgc 240
tacttaaagg cttaacagat gtgggacacg ggactatatc ccatgtttga ttttcttcca 300

atgctagaag ttcagtttca atagctntct gccacaagc attcttcatg gcctggctat 360
aagaggaagg gataggaata aaggataatg aggctgtcat ggaatggata tacctgtctg 420
gg 422

<210> 17410
<211> 394
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17410

agcttggctg cacacaactc tctaatagct aagctcacct ccttgagatg aaaagcaaga 60
gcttagctac acacatcccc tataatagtt aagctcacc ccatgccaaa atacatgaaa 120
atataaagaa gtccctaata caaagactac ttaaaatgcc ctgaaataga aggctaaaac 180
cctatactac tagaatggcc aaaatacaag gcccaaaagt aggaaaaacc tattctaata 240
tttacaagaa agagtggacc caaccttggc ccatgggatc aaaaatctac cctgagggtc 300
atgagaatct tanggccttc tttagcagct ctageccaat ccttttggag tcttctatct 360
aatacccttg gggggtagga ttgcatcana gtgc 394

<210> 17411
<211> 387
<212> DNA
<213> Glycine max
<400> 17411

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttatata agtggcctca 60
gatattctaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120
tctatttcac ttttttactc aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180
attcaaacaa agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
aagagaaaat gcaaactcag ttttatactg gttcgaccac acccttgtgc ctacgtccag 300
tccccaagca acccgcttga gagttccact atcttgtaaa ttccttttac aagatctaaa 360
cacacaagga caatccttcc tttgtgt 387

<210> 17412

<211> 394
 <212> DNA
 <213> Glycine max

<400> 17412

agcttataga atatataata aaagaacaat gacaattgaa gagtctatac atgtttcctt 60
 tgatgattct aatgccatcc ttccaaggaa ggatttttta gatgatattt cagattcctt 120
 agaagataca catattcatg gaaatgactc taaagaaaaa gatgaaggaa gcaatgaaga 180
 ttctcaagat aatggagtta gggcaaataa tgaacttcca agagaatgga aagcctcaag 240
 agatcatccc ctgcacaaca ttattggtga tatatcaaaa ggggtaacaa ctagacattc 300
 tcttaaagat ttatgcaata atatggcttt tgtatctatg attgaaccta aaaatataaa 360
 agaagccata ctagatgata actggatcat tgtc 394

<210> 17413
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17413

agcttttgca agctggaatt atttatccta tctccgatag ccaatgggtg agtcccgtcc 60
 aggtagtccc gaagaagacc ggcctcacag tgataaaaaa tgagaaggag gagctgattc 120
 ctactcgggt gcagaacagt tggagagtct gcattgacta taggaggctg aaccaagtta 180
 ccaaaaagga ccattttccc ctaccattca ttgaccagat gcttgagcgc ctgacaggta 240
 aatatcagta ctgtttcctt gatggttttt ctggttatat gcaaattact attgctcctg 300
 aggatcagga naagaccaca ttcacctgcc cctttggcac ttttgcctat angaggatgc 360
 ctttcggcct gtgcaatgcc ccttgt 386

<210> 17414
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 17414

ttccacattg aattcagcac ctaatgtcat attagattgt aattgggtat cttaacatat 60
 gagatttcag atggacttta atcctaattcc catagccgac cttttcacga gatctctact 120

taaccctttg gttaaatgat cggccaaatt atgctgagtt ctcacaaact ccactgatat 180
cacaccatgc atgattaact cccgaaccat gttgtgtcta acaccaagt gtctagactt 240
cccattatac acttgactat atgccttagc caaagttgcc tgactatcac acctgataga 300
catgggaggt ataggtttgg gccacaatga aatctcatag atcagatttc ttagccactc 360
agcttcttta ccagctgctg ctaaagctac aaattcatat tc 402

<210> 17415
<211> 413
<212> DNA
<213> Glycine max

<400> 17415

agctggggct attccaagtt catttaccat acctttaagc tttattgctc tcttactcct 60
tcacctaggg ccatgtattc tgcttcagtt gttgaaacac taacaactga ttgttgattt 120
gctttccaac tgattgttgt accaaacaaa gtaaacacat atcctgttaa ggatttcctt 180
gtgtctacat ttctgcaaa atctgcatct acatatactg tgattgctgc ctcattgtgt 240
gtcttcttgt accttaatcc agctatcaaa gatccatata gataccttag tgttcacttc 300
acaacttccc aatgcgcact gccagcatct cccatgagtc tgcttattat acttacaaca 360
tgagccacgt caggtctgct gcaaaccatt ccatacatta tgctttacac acc 413

<210> 17416
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17416

agcgtggaaa actctgctct ngtttccngc tggagcccat agatagactt cttcagttta 60
taaacgagat gagaattggc agaagcgaaa ccttctgggt gctgcatata gacttcctct 120
tgaatgggtcc catttagaaa agcattgatg atgtccactt gtcgggtatc ccattttctg 180
gtgactgtaa tgctcatgat tgtgcgaata gtggctgggt taataacagg actgaatgtc 240
tcattgtaat caaggcctgg tctttgagat aacctttaag ccactagtcg agctgtgtgt 300
ctgacttcag agccatcagc attgtatttc aagcaataga tccatttgga gccaatagcc 360

ttctta

366

<210> 17417
<211> 430
<212> DNA
<213> Glycine max

<400> 17417

taacaccatc atgagcagca tgtctgtaca aatttaagat gttcaagatc taatactgta 60
taaacaatca tcatacttta ctagttacat tttctcacat accgcaagga agtatccatt 120
ctcagagaaa gatatggcag ttactggccc agcatgtccg tcaaacctag caacatttgc 180
ctacaaccaa tggaggaagg taagaacata gagaataaca ttgaatatta aaattgaact 240
ttaaacaagt ataagaaaaa atgtttacct gactttttac atcccaaadc ttgacaagag 300
attctgtggt gccggttcca agaatgagac catccggatg aaaagccgca gatgtgtacc 360
cttccgaaga acctgaagtg tcataaacct acacaactca tcattaattg tctgattcag 420
aacttatgta 430

<210> 17418
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17418

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agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300
atatccatga tattgttgag ctgcaggagt ttgttgaaat ggatgaattg cttcacanag 360
caatccaagt agagcaacaa ttaaaaagga aaggagtgg 399

<210> 17419
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17419

agctttctcc actatgttgc ctgatgcctg aaatgtcttt tctgatggca gtggtcctag 60
atgcagggaa gaatttctcc atgaacāācc tōttaaggto attccagctg aaaatggacc 120
taggagccaag gtagtatagc caatōttttg teastōctō tagagaatga ggaaaatcct 180
ttagaaagat atgatcttcc tggacattag ggggcttcat ggtggaacaa aaaatatgga 240
actccttaag atgcttataa ggatcttcac ctgcaagacc acgaaacttg ngcagcaaāt 300
gtattagtcc agtcttgaga acatatggaa caccctcatc aggatattga atgcacaagc 360
tntcataagt gaaatcaagt gcatccatc 389

<210> 17420
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17420

agcttatcac gattcaaagc tgttgaagag agacttcaaa ccaggacaac atgtattact 60
ttttaattca agattgaaat tatttcctgg taagttgaaa tccaaatggg ctgaaccttt 120
catcatcagg aaagttcggc cttatggtgc aatagagttg tatgatccac aatttcagga 180
ccttgactga acatggttgg tgaatggcca aagattgaaa ctgtaccatg gtggagagtt 240
tgaaaaggca aacaccatct taaatttgat ataaccatt gaggtatatg cgtcaggcta 300
atgacgttaa aagagcgctt cctgngaggc aaccaactc tgatttcttt cattntgttt 360
ttcatgcatt gcataagttg gaatttgctn tatgatcatc ga 402

<210> 17421
<211> 408
<212> DNA
<213> Glycine max

<400> 17421

ttgagcaaāt tcaagcaaāt tatcactttt tactcggttg tctgtttgag tcccgtāata 60
tatcgagagc ctcgaaatgg aacaccgaat ctctgagaaa attcaaacga caataacttt 120
ttactcggat gtcagattga gtccagaaāt atgtcaagat gcttgaaatt gaagaccaaā 180

gctctgagcg aattcaaacg acaataactt ttctactcgga tgtgtgactg agtcccgtaa 240
tatatcgaga cgctcggaat tgattatcga agctctgagc aaattcaaac gacaataagt 300
tattactcgg atgtctgatt gagtcccgta gtatatcgag acgctagaaa ttgaataccg 360
aagctctgag caaatgtcaa cgataataac tttttactca gatgtctg 408

<210> 17422
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17422

tgccgccacg gagttttccg actatgctct tgtgtgggtg aacatgctac aaaaggagag 60
agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
aggcaacaag ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgattttctt aatggtttga ctaatgatat 300
ctgtgatagc tgcangaagt tgttgaaatg gatgatttgc ttcacaaagc aatccaagtg 360
gagcaacaat taaaaaggaa gggagtggct aagaggaagt ttaccaactt tggttcttct 420
agttgga 427

<210> 17423
<211> 377
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17423

tgtaggttat agtgacaatg attgngctag atatgaatat gatttataaa ttactagtgg 60
atztatgttt tcaaggggaa tacaaccttc acttggtatg caaaaaagca tttgatagtc 120
actttttcga cctgtgaggt gaaatacata gcagctactt catgtgtttg tcatgcagtt 180
tggcttaaga atttgttaaa agagttaggc atgtcacaag aagagccaac caagatcttt 240
ggggacaata ggtcaggcat tgctctagca aagaatccag tgttccatga tcgaagcaaa 300
catattgata cctgttacca ctacataagg gagtgcatag caagaaagga tgtacatgta 360

gaatatgtga agtctca

377

<210> 17424

<211> 361

<212> DNA

<213> Glycine max

<400> 17424

tttcatgcaa gcttggacac tttcaatatg attgtcctac gtgggaaaag aaaccaaatt 60
atgctgagat ggaggataaa gaggaacaag aggatgagct cttgttaata accttcatag 120
attgcataga aggggaagaag gatgagtggg ttctagactc gggatgcggc aaccacatga 180
gtagtaacaa ggagtgggttc tcagaattgg atgagaactt tcggcacaat gtaaggctgg 240
gtaatgatac tcacatagct gtgaagggga aaggtagtgt ttggatgggt gtgaatgaga 300
ttatacatgt aatcacacat gtatattatg ttcttgaact caagaataat ttattgagta 360
t 361

<210> 17425

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17425

agcttgtagg gttaaagtct cactattgtc acgtgtcat gcaacaattg ttagccgtgg 60
ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgctg tgctttttct 120
tccatgctat atgtagcaaa gtcattgatc ctatcaagtt tgatgagctg gaaaatgagg 180
ctgcaattat actgtgccag ttggagatgt attttcccc tggtttcttt gacatcatga 240
ttcaattgat tgtgcatctg gtcaaagaaa tcaaataattg tggctctgtt tatctacggg 300
ggatgtaccc ggttgagcaa tacatgaaga tcttanaagg gtatacaaag aatttatatc 360
gtccagaagc atcta 375

<210> 17426

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 17426

tgatattaaa tntaagtaaa ttacttgcaa ttcaaaatgt taaattaaat ttaattgcta 60
 ttatgtatca cgcagtttat atgtaattta ctttttactt aatgattgca aaataatgca 120
 agtttatattt aatttaaatgt ttagttaata ttttgtaaga gttttgttta gctgatatat 180
 acatggaact agattgcatt aaagtttagat tttttaacag aaaaggttat ttaagtattt. 240
 tgatttttaga ataaaaataaa aggaaatgta attggccctt gtgcttattt aatgtcaaaa 300
 ttcctaatat tttttagagg catttgggga agctttcctt gaacacaagg actgttctag 360
 ggactcaaaa gtgaccaagt ttttggtttg gttgtggctg gaggcttctt tgttctgttc 420
 tttgtgagac 430

<210> 17427
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 17427
 agcttaaaca ttttatttcg agcgtctcgt tatattacgg gactcaatca gacatccgag 60
 taaaaagtta ttgtcgtatg aattggctta aagcttaaac attcaatttc gagcgtctcg 120
 atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180
 agaggttcaa aattcaattt cgaacgtctc gatatattac gggactcaat cagacatccg 240
 agtaaaaagt tattgtcttt tgagttggct cagaggttca acattcaatt tcgagcgtcc 300
 cgatatatta cgtgactgaa tcggacatcc gagtaaaaag ttattgtcgt tcgaattggg 360
 tctgaggttc aacattcaat ttcgagcgtc tcgatatatt acg 403

<210> 17428
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17428

tacgacaata actntttact cggatgtctg attgagttcc gnnaaanatc gagacgctca 60
 aagttgaatg tttaatcttt aagccaattc atacgacaat aactttttac tcggatgtct 120

gattgagtcc cgtaataataa cgaaacgctc gaaattgaat gtttaagctt tgagccaatt 180
 ctaacgataa taacttttta ctcggatgtc cgattgagtc tcgtaatata tcgacacgct 240
 cgaaattgaa tgttgaagct ctaagcctat tcaaacaaca ataacgtttt actcggatgt 300
 ccgattcagt gacgtaatat atcgagacgc tcgaaattga atgttgaacc tctgagccaa 360
 ctcaaacgaa caataacttn tactcggatg totgattgag tcccgatta tate 414

<210> 17429
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 17429

agctttctca catttccgcc ttgcttgac cttctttatg cttaaaaaca gaaacattat 60
 gcataggcaa aagatcaaga ggagttagt ggttaaaacc ataaacaact tcaaaaggag 120
 aacaattagt ggtgctatga acagctctat tgtaagcaaa ttcaacatgg ggtaaacaag 180
 cttcccaagt ttttaagttc ttctcaaaa ctgtcctaag caaagttccc aaagtcctat 240
 taacaacttc cgtttgcca tcggtttgtg ggtgacaagt ggttgaaaat aacaatttag 300
 tgcccaactt gctccacaaa gtcctccaaa aatggcttaa gaacttagag tccctatcac 360
 taacaatgct ctttgcaaaa ccatggagtc tcacaatctc ctt 403

<210> 17430
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17430

cacatgagtt tgacaaacct ttaccatat agtttttact ctctggtaat cgattaccag 60
 attattgtaa tcgattacca gtagcaaaat tgttttgaaa aagttttcaa attgaattta 120
 caacgttcca attattttca aaaagctgta atcgattaca atgtttgggt aatcgattac 180
 cagtgccctt gaactttgaa attcaaattc aaatgtgaag agtcacattc ttccacacaa 240
 aagctttgtg taatcgatta cactaatttg gtaatcgatt accagtgact gtttctgata 300
 aatcaaaaga tgtaactctt cacaagggtt ttgactttnt caaattgngt ttaagttggt 360
 ctaaaagtta taactcttct aaatgggtctt cttgactaga catgaagagt ctataaaaagc 420

aag

423

<210> 17431
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17431

agcttagtta gtagggggcc tgatgacctt gctaagagca atgggcactc tgtagaactg 60
accgcattca cctgtccctt tggcactttt gtctatagga ggatgccctt tggcctatgc 120
aacgcccctg gtaccttcca gcggtgtatg cttagcattt tcagtgattn tttagagagt 180
tgcatagagg tttttatgga tgattttact atttatggat cctcttttga tgcattgttg 240
gatagtctag atagagttct caatagatgc attgaaacta accttgtgct aaattttgaa 300
aaatgtcact ttatggtaaa acaaggtata gtcttagggc atatcatttc tagt 354

<210> 17432
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17432

tctggtggga catcttgact tgctgtccaa tctgacattc tctctttatt ctgccttctt 60
ctattttcag attngaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120
ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattctct ttggagaata 180
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtagcagttg tcctttgatc 240
tgctgccctt cattagaact tcactcttct catttgtcac taagcattct gactttgtga 300
agtttacatt gaatccttca tcacacagct gactgatgct gattcaagtt gtagtcagtc 360
ccttcaccag cagtactttg tccagactat gaagtccatc atggact 407

<210> 17433
<211> 413
<212> DNA
<213> Glycine max

<400> 17433

tgccttgtcc cttgatata~~t~~ ttgatggact catggtttct atgaatgaca aattccttgg 60
 gataaaggta gtgttgccat gttttcaaag cccacactaa ggcaaacaac tctttatcat 120
 aagttgaata gttaagggta ggaccactta acttttcact aaaataagca attggatggc 180
 cttcttgcaa caacacaacc ccaatoccaa cgtttgaagc atcacactca atttcaaaag 240
 atttttgaaa gtttggcaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300
 tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcacttcat 360
 ttagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa ctt 413

<210> 17434
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 17434

ctcagcttac catcgatggg acaatggtag cctttgactc tcaacagacc cagaattctg 60
 acaagctgcc ttctcaagct gtccaaaatc ccaaaaatgt cagtgccatt tcattgaggt 120
 cgggaaaaca gtgtcaagga cctcaaccog tagcaccttc ctcatctgca aatgaacctg 180
 ccaaacttca ctctactcca gaaaaaggtg atgacaaaaa tttacctaac aatttctgtg 240
 caggtgaatc ttcttccaca ggtaattctg atttgcagaa gcagcacatt cccctcttc 300
 cattccctcc aagagcagtt tccaacaaaa aaatggaaga ggcagagaaa gagatcttgg 360
 atacattcgg aaaagtagag gtaaacatac ctctgctgga tg 402

<210> 17435
 <211> 360
 <212> DNA
 <213> Glycine max
 <400> 17435

tctgtcttca tgcaatcttt aacaacggtg gcacgcctcc ttcatgatg agtttcccgt 60
 aacggtcgtt gtcgagagca agggagacga gggaagcggc tgcgtctgaa cgttcgtcca 120
 aggaagcacc ggagagaaga atggcgacct gttcccagat gatgcagaga atgggctcgt 180
 tggcggcgat gggagggagg ccaggtact cgtcgtagcg ctgctcggcg gaggcacgtg 240
 ggacgctcgt agaggtcgtt gctgttcctg gcggcctggc ggatgaggcc cgccaacttc 300

ttcagtttgg atttcagctc cagacattcc tgtcggaaat tctggtcctc ttccgcaagc 360

<210> 17436
<211> 374
<212> DNA
<213> Glycine max
<400> 17436

agctttgtat gctctattca atggagttga caagaatata ttcagactga tcaacgcatg 60
cacagtggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180
agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
gggagagagg atgacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300
at ttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360
tgaactcatt gggt 374

<210> 17437
<211> 441
<212> DNA
<213> Glycine max
<400> 17437

tagaacccta gcttatgcta caaacattta taatacaccc ctcagtagc ttaaccaaca 60
atagcagaat aattatgatc tttcaagcaa cagatacaat ccagggttga ggaatcatcc 120
aaatctgaga taggcaagtc ctccacaaca acaatagcat gtccctcctt tccagaatgt 180
tgttgggtcca agcaagccat atgttcctcc tctaatacag cagcaacaac aacaattgtc 240
acaacaaaga caatcggcaa ctgagggtcc tctcaacct tctttataag agatagttag 300
acaaatgacc atccagaata tgcaatttca gcaagagaca agagcctcca ttcaaagtct 360
aacaatcat atggggcaga tggctactca gttgaaccaa actcaatccc aaaattatga 420
caaattgcct tcacaaactg t 441

<210> 17438
<211> 282
<212> DNA
<213> Glycine max

<400> 17438

tgcttctgta cagactgtga tcaacacttg tgcccgttt atccttcgac agctttaagt 60
gagtaggtgc acgtgttctt ctatgactgg caatttccat tccgaactta tttacgatgg 120
tctttgcatt cttgctttgg gagaagaaca tgaaagcttt ccttttggtt tgcttgggag 180
ccgaaaaaat aagtctcttt tccaacgaga ctcatgtgaa attcatattg catctgtggt 240
acaaaatgtc aaaccatttc tttcgacatc cctccaaaca ca 282

<210> 17439

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17439

agaggtgtgt tgaaaccttc tttatatctt tatagttatt tgtgtgataa tgattttgtt 60
tatatgtgga gactaatata gttttttttt tctttgggta aggaatgggt tttagcttcc 120
agaattgcag tgcttgacaa cctgggtctt cgaatgcgtg ggaggaccat ggtccggcca 180
gctccaccat ccaacaaacg agaactatcg tgggtcggcg atgttggttt tgttgttgat 240
gcttgggtggc atgatggatg gtgggaaggc attgttggtc aaaaggactc ggaatctaat 300
tgtcatgttt atttcccagg tatgaatgtc tgctctttct atgttaatta gcttatgttg 360
gtaactgttc ttttgggtact tagattatga gctcgnnttt ttatttttga ttaattccta 420
tgg 423

<210> 17440

<211> 321

<212> DNA

<213> Glycine max

<400> 17440

tgtaggatat tcaaacgaca ataactttgt actcctatgt ccgattgaat cgggtaatat 60
atggagacgc taaaaataga gactagatgc tctgagcaaa ttgaaatgac aataacttta 120
tacacggata tccggttgag taccgtaata tatcgagacg ctccaatttg aaaactgaaa 180
ctcttagaaa attcagacga caataactat tactcggatg ccttatagag tgtcattata 240

tatcgaggga tgcttcaa at tgaaaacgga agctcgtatg aaatccaaac gacgataacc 300
 ttttactagg atgtctgatt g 321

<210> 17441
 <211> 374
 <212> DNA
 <213> Glycine max
 <400> 17441

agcttctttt tctttggcca atgctggact tgcttggcag tgatttcctt ggcaatttga 60
 tgctcagaaa tagcaatatc caccactcct tcagttggtc tgcccaggta cttgttgatt 120
 acagcagggg agaatcta atcatcttct ctgacaaaca ctttctgata ctcactc 180
 tttctgtttg ctatgtcaga gggaatgttg acaatgaatt ccttgactag actttcataa 240
 caatcaccca tcttgggtgac agttttcagc agtccagcag ccttgatgag gtccatgac 300
 tccttgcaat ccaaggcatc tgtgtccagt tctctttcta aggcaagtct gcgttgatat 360
 acaaatctcc acct 374

<210> 17442
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 17442

tgtttttaac attgtttcac ttacaagtga tcatggaggt gaatttcaaa atgagtcttt 60
 tgaaaagttt tgtgaagaaa atggaattca ccataatttt tcagcccca gaacacctca 120
 gcagaatggt gttgtggaga ggaaaaatag atcccatgaa gaaggaacta taacttttac 180
 aattgaaaca aagttaccta agtacttttg ggctgatgct atacatacta tttgctacac 240
 tttgaacata gtaattataa gacctacact aaatcttatg aactttataa aggaagaaaa 300
 caaaatatat ctacttgag gggttttggg tgcaaagtgt ttattttaaa caatggtaaa 360
 gattctccta g 371

<210> 17443
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 17443

ttgaatgctc tattcaatgg agttgacaag aatatcttca gactgatcaa cacatgcaca 60
gtggccaagg atgcatggga gatcctgaaa accactcatg aaggaacctc caaagtgaag 120
atgtccagat tgcaactatt ggccacaaaa ttcgaaaatt tgaagatgaa ggaggaaagag 180
tgtattcatg acttcccat gaacattctt gaaattgcc atgcttgac tgccttggga 240
gaaagaatga cagatgaaaa gctggtgaga aagatcctca gatctttgcc taagagattt 300
gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360
ctcattgggt ccttcaaac ctttgagcta ggactctcg ataggactga aaagaagagc 420
aaga 424

<210> 17444

<211> 408

<212> DNA

<213> Glycine max

<400> 17444

tgggtacttct actgaagctg agtttctacc ctcttctgt cctgacatag aatctctagt 60
gcagctgaag gatgctatag ggttcttgat ccttcagatt cagtcttctgt ttcttgtttg 120
ttctttttct tggatttatc tctcattaaa aaaatatcaa tgaaaaatat gatggattaa 180
ctggtttttc ttttctgggt atcggagaaa agataatgat tttcattgggt ctctatttc 240
agtatttgga tttgtacatt ttttattgggt tattatctat tcattcatta tattagtaaa 300
ttttagttgt ttttaataa caatatttga tgccaaaata aaataaaatg attagaactc 360
aaggatttaa ttaataacta ttatttcatt tatcatttat aattattt 408

<210> 17445

<211> 353

<212> DNA

<213> Glycine max

<400> 17445

tgtttatact ttttattaaa ataccactaa tcaaatttta gatgaagttg aacaacatcc 60
tgtggtacct tacagattca ttatgttaat tagcatatct ttaaataagt gggctaattg 120
aaaattattc acaattatct atttgaagat gatgatacgt atatatttta aggataaaaa 180

gagaataaaa tattctaagc taacaattaa tattgcaaca aatactactt tatgtatcat 240
 tccaaaacat atgagtgatt accatactat attatttatt gaattctgaa ataaactttt 300
 agatagtgga acatagttaa atgctagcta aaatgactcc tcagatgtag cta 353

<210> 17446
 <211> 124
 <212> DNA
 <213> Glycine max

<400> 17446

tagccaaaca ttaatttaaa attcttacia gtattgctta aattatctac gaattatgga 60
 ttgaaatctt gtaaattaat gaatccactt ttaccaaact ttattgcttc tttcttact 120
 ctaaagtgtt gcataaactt ttataatatt tacataacct ttaggtgata tattcaatta 180
 ttcattataa tttttttatc tagaggattt ataacaacaa ctcatgtacc tttatttaac 240
 taattgaact aaatttcttg acatccatta acatttttta taatataaaa ctaatagcag 300
 taaaaatata ttatcaacta ttcagtaaca attataaact gccttttggt tccctaattt 360
 ttgtttgttt ttaaaaaaat cttataaaaag cacaataga ctcagattat gttacaaaaa 420
 tgat 424

<210> 17447
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 17447

tgcttgactt gtcttggtta ttggtatact taaataccaa taagcataag atattatttc 60
 taaattttta ctttttgaag ctctagatgc tgacgagctt gacttggttag gttgtttatt 120
 tatataaaca ataagcgtca gaggtccat gtgaatgtgt tgggatgaat gatgtgatac 180
 attaacattt ttggttgga gattttcagt actaagtgc aacttggact tgccactgaa 240
 aatgtaatag aataatatgt tgcaagtcac ggttggtctt aaaatataaa accagagggg 300
 taaattttta gcaagttacc ttgactgaaa attgcctatc caggtatgca aatctggtca 360
 tttacatgca at 372

<210> 17448

<211> 402
 <212> DNA
 <213> Glycine max

<400> 17448

tgcattgcatt tgaagagaaa gccagatgga aagtgtatca ttcattgagtt tataaaaggaa 60
 cataatcatg aacttgtacc agctcttgca tatcattttc ggattcatag aaatattgaaa 120
 ttagctgaaa agaataatat tgatatcttg catgctgtta gtgaacgaac cagaaagatg 180
 tatgttgaaa tgtctaggca atctagcagc tgtcaaaaca ttgggtcttt cttgggtgac 240
 ataaactatc agtttgacag aagccagtat ttggctttgg atgagggaga tgcccaagtt 300
 atgcttgagt attttaagca tgtacaaaag gagagtccca acttcttcta ttctatagat 360
 ttaaatgaag agcagcgctt aaaatatcta ttttggattg at 402

<210> 17449
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 17449

agctttttatc tcggaggccc gattcatgcg cataatatat cgagacgctc gaaattgaac 60
 aacggaagct atcgagaaat tcaaatgggc aatacttcga actcggaggt cctattaagg 120
 cgcataatat atctagacgc tcaaaatttt acaatggaag ctctttggct atacaaatgg 180
 tcataacttt tcaactgaag gtccgattaa ggcgcataat atatcgagac gtcaaaatt 240
 gaacaatgga agctcttgag caattcaaat ggtcataact tgtcactcgg aggtccgatt 300
 caggtgcata atatatcggg acgctcgaaa ttgaagaatg gaagctcttg agcgattcag 360
 atggtcataa ct 372

<210> 17450
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 17450

ttgatgtaac attaggagag gttaatgaaa caacgtgatg atgcgcttca tgagagggtg 60
 gatcaaattg agaatagaga ccatatgaat tgctcaagag cttccattgt tcaatttcga 120

gcgtctagat atataatgcg cctcaatcgg acctccgagt taaaagttat gaccatttga 180
aatgctcaag agcttccatt gttcaatttc gagcgtcacg atatattatg cacctgaatc 240
ggacctgcga gtgacaactt atgaccatct gaattgctca agagcttcca ttgttcaatt 300
ttgagcgtda cgatatatta tgcacctgaa tcggacctgc gagtgacaac ttatgaccat 360
ctgaattgct caagagcttc cattgttcaa tttcgagcgt ctcgatata 409

<210> 17451
<211> 428
<212> DNA
<213> Glycine max
<400> 17451

tctagaactt ggtacgaaaa actaagttca ttgtttctga aaaatggttt taagtgagga 60
atagttgaca taacactctt tcgcaaaaac taagattatc aatttttatt agtgcaagta 120
tatgtagacg atatcatttt tgatgctact aatgaaatgc tttctgaaga tttttctaag 180
ttgatgtaga cgaaatttga aatgagcatg atgggagagc ttaaattctt tcatcgatta 240
caaataaaac aaacacccaa aggcttctac attcttcaaa ccaagtatgt gaacgaattg 300
ctgaagaaat tcaacatcga caatgcaaaa gaaatgaaaa ctctaattgca ccccatgaca 360
tacctcggac tgaacgagta atcaacaaaag gaaagtttgt ctatgtggaa gcaatgattc 420
actcacta 428

<210> 17452
<211> 410
<212> DNA
<213> Glycine max
<400> 17452

tgtaataat tttctttgcc tcataatttg aaggatgaaa cttttctttt tcaaattgtg 60
catttaacaa atccaatatc atagtcattg ccttggtgct taatccacac aaaactttta 120
tatgatataa ttgattata aattcaagtt ttgtgtactt gcttccttca tacaatgttt 180
gactcccatc gtttagaagc tcataaaagc cattatgac tttctttggg tcatcattta 240
ctatttcac ttcatttaat gggtgtgatg cacctacatt aaggatcatgt tgcctatatt 300
gttcaaagtc gtcattgatc atcatttcca ttgggttttg aggttgaaca ccactatctc 360

ggaaaacatc ttccacttga gaagattcta atgcttgctt ttcaccatga 410

<210> 17453
<211> 415
<212> DNA
<213> Glycine max

<400> 17453

tcgatctaatt tcttctctaa aacaacttgg gaagctatat tacttcttgg gaattgaagt 60
caagtctatg gctgatggct ctattcttct aactgaaaga aatacataag atatcttcta 120
cagaaaacta aaatggcaga ggctcaacct atatcttctc ccatgggttc tggatgtaag 180
ctcactaaaa caggagcaga tatattctca gacccactc tgtatagatc agtgggttga 240
gcactccaat actccaccat aaccagacct gagcttagtt ttgctgtgaa caaagtatgt 300
caattcatgg ctaatcctct tgaaacacac tggatagcta taaaaagaat cctcccatat 360
ctaaaaggct cgttacatca tggtaagta cttgagctat acacgagctg agtat 415

<210> 17454
<211> 377
<212> DNA
<213> Glycine max

<400> 17454

agtttgtatg gttaaagtct cacgattgtc atgtgctcat gcaacaattg ttagtcgtgg 60
ctatacgaga catcttgcca aacaaagtca ggtaacaat aactcgcttg tgcttttct 120
tccattctat atgtagcaaa gtcattgatc cagtcattgt tgatgagttg gaaaatgagg 180
ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcacctg gtcagagaaa tcaaagtgtg tggctctgtt tatctacgg 300
ggatgtaccc gggtgagcga tacatgaaga tcttaaaagg gtatagaaag aatctatatc 360
gtctagaagc atttatt 377

<210> 17455
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17455

ctatgctgat ttttcttcac ttgaactcct caacctctgt agcgcaatca gcctctgctg 60
aaccaccatg acctctccag cgcttggtct aatcccggac ggcggaatca tcccctcctt 120
acatgggtcga atccttcaca gcagcagcaa caacaacaac aaccttattt tcaaaatgct 180
actggcccaa gcagaccata cgcttcctcca ccaatccagc agcaacaatt gcaaccaccc 240
tataaaccag cataagatga agctgcttcg caaccttccc ttgaagaact cgtgaggcac 300
atgactatgc caaacatgct gtttcaacaa gagaccagag cctccattca cagctnaact 360
aatcagatcg gaccaatcg tacacagctc aatc. 394

<210> 17456
<211> 374
<212> DNA
<213> Glycine max

<400> 17456

agcttgatg ccttggtatc tcttcatcaa cggagtcctt tgcttcttga agttcaatgg 60
aagcggaatg gagaaggaag aaagatgatt ggagatgcc cttcaaggag aagatgagtc 120
aagaacaagc tcaccaccat aagaagccat ggataagagc ttgaaggtag gagaagatga 180
gtggagggag aaggagagaa ggagcacgaa atttagttcc tcaaatgagg tatgaacttt 240
gaagtgtaat tctcaaatga tcaaagttca aaaaatacac acatatggcc tttattttata 300
gcctaagtgt cacacaaaat tgtagggaaa tttgaatttc tattcaaatt tcacttgaat 360
ttgaaattga attt 374

<210> 17457
<211> 362
<212> DNA
<213> Glycine max

<400> 17457

tgcttattcc gatctttatc tctctattca ttacagcaga gatgaactta attgctgaat 60
gacagtcttc acatatccta aggatcttga caatcctgag agtcactcca tcgccagttt 120
tcacagccc aaatgccacc gcaagcttct cactgtggta cctgacggca tactcccttt 180
cttcccctta caactcgtgc atcgcgagct ctggcacggg tgcatagcct gcaccccttg 240
acctccatat caactcatcc aagaaactat aaatctcatt agtctcacgg tgagacttgt 300

cacccatgct aaaaagataa ctactattgt caacatctat ggtgctataa cccacttgct 360
tc 362

<210> 17458
<211> 382
<212> DNA
<213> Glycine max
<400> 17458

agcttcctag aatcaagatc aagattcaag actctagatt caagaatcaa gagaagactt 60
aatcaagata agtatgaaaa agtttttttca aaaaactgag tagcacatgg attttttctca 120
aaacatgttt accaaagagt ttttactctc tggtaatcga ttaccatatt gttgtaatcg 180
attaccagta gcaaaatgtt tttgaaaaag ttttcaactg aattttacaac gttccaattg 240
atttcaaaaa gctgtaatcg attacaatgt tttggtaatc gattaccagt gtgcttgaac 300
gttgaaattc aaattcaaat gtgaagagtc acattctttc acaaaaaggc tttgtgtaat 360
cgattacact aatttggtaa tt 382

<210> 17459
<211> 375
<212> DNA
<213> Glycine max
<400> 17459

ggaagcgggt atccgcctga aaagatatga ccatttttaat ttctcaagag cttcagatgt 60
tcaatttcta gactctcgac atattatgcg cccgagtcgg acattcgcgt aaaaagttat 120
gaccatttga atttctcgag agtttttcgat gttgaatttt gagcgtctcg atataccata 180
agcctgaatc tgaccttagt gtgaaaagtt atgaccattt gaatttcacg agagcttgcg 240
ttggtcaatt tcgagcgtca ctatatgtga tgcgcctaaag atggacattc gagttaaatg 300
ttatgagcat gtgaatttct caagagctgt ccgtgatcaa ttctgagcgg ctcgatatgt 360
tgatttgctt gaatc 375

<210> 17460
<211> 393
<212> DNA
<213> Glycine max

<400> 17460

tgtgttgtgt gtagtttcag ttgtgctggt cttctgtcca tatttggttg tctcaaactt 60
ggtagccttag ttaatatattt tgggtgttcta cttattctgt tgttgataat taaattattt 120
gttttaggta ttataaaaatt tgtatgctat atttgttcta cgtattctaa gtttgtatgt 180
tattatttgt gttacatata tatggtagct tagtttgtat gttaatatta tttgttttag 240
gtattctaaa ttattattca aatatatggg acgttagttt gtattaattt tgtatatata 300
ttgtttaaat ttttctttgc atattaattt atgttattca aatatatatt gttttattta 360
tttaaatttg tctttgcatg cattttaatt tat 393

<210> 17461

<211> 377

<212> DNA

<213> Glycine max

<400> 17461

agcttgatgg taaactagat gtcttgggta acttggcaac ccaactggcc atgaatcaaa 60
aatctgcacc tgtcaccaga ctctgtgggt tatgctctc tgccgaccac cacacagacc 120
tttgcccttc tgtgcaacaa tctgaagcaa ttgaacaacc tgaagcttat gttgcaaaca 180
tctacaatag acctcttcaa cctcagcagc aaaatcaacc acaacagaac aattatgacc 240
tctccagcaa caggtacaat cccgggtgga ggaatcatcc caaccttaga tggtcgaatc 300
cttcacaaca gcagcaacaa caaaaacagc cttattttca gaatgctgct ggcccaagca 360
aaccatacgt tctcca 377

<210> 17462

<211> 239

<212> DNA

<213> Glycine max

<400> 17462

agcttagcag cttttctttc agtgtaatgc cccctttcca caatcctatc aaacaactca 60
cccctgcac agagctccat aacaacatga accgcgacag cgtcctcgaa agcctccttg 120
atggagatca cgtaggact cccagccaag tgggtgcatta tttgaatctc cctccttaca 180
tactgcacat cctgatatgt caaaagcttc ctgctcgata atgacttgcg tgcatactc 239

<210> 17463
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 17463

aacgtcaata gcggacttcc tctgaaaaat tacaacacca tctcctgact gagccacctc 60
 aatacctagg aagacttcta atgtccctag tcttttgtct gaaaatgact gaataagtgc 120
 tccttttagct aaccaatctt agtagcatca ttccctgtca tcactatata atcaacatat 180
 actatcacat aaacacactt ctgagaggat gaatgacaat aataaacaga atgatcaacc 240
 tcactacgtt tcaatccaaa aagtcgaaca ttatgactga atttaccaa ctaagcccga 300
 cgggattagc ttcaccata gagagatcaa c 331

<210> 17464
 <211> 296
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17464

attgattctc atgcagaatt tgaaggccaa ctatcatgtc ttgcagaagt attgtcatga 60
 agtcacagtc agtgtgtctt gtaatgccc tggtgagttc aggttcaggc cattgtggat 120
 agtattgacc caaaatataa agtgcctcag cgcagtcctt ttctttgaag taagaagggt 180
 taatgccaa agcctctgac aatagctcan agattgtaat gcccaacacc cttacttttt 240
 tgggtatattc agccacaata tctctgcgaa agcatgatta tttcatcaat gacaag 296

<210> 17465
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17465

tgaaggagtt tattgcatca gggaattatt tcactttaaa agtgggtcct aattggattc 60
 ctaattttca acttacctat ttggatgtga catcatggca gatagggtccc aactttccat 120
 cgtggattca atcacaaaac aaacttcaat atattggact gtctaacacg gggatttttag 180

attctattcc cacttgggttc tgggaaccac actctcaggt tttgcattta aacctctctc 240
 ataatcatat ccatgggtgag cttgtgacta cattacaaaa tccaatatct atccaaactg 300
 ttgatctaag cacaaatcac ttatgtggta aattacccta tctttcaaat gatgtgtatg 360
 agttagacct ttcaaccaat tcattctctg aatccatgca agaattntta tgtaacaatc 420

<210> 17466
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 17466

tatgcttttc tttatattgt cacacagatt tcatattctt aatggctgct gttttttcag 60
 acacttccta tttttcttga tggccttggt actgcatggg gcgctatcct aatttctgtg 120
 acattgaattc ttttggttgg tgagggtgaga aagttctgtc cttatatgat ttttaagtata 180
 atacattcat gtcacagatt aagtgttgt gttgtttgtt tagagggttg aacctggaac 240
 aaaaatctgg tggcacagca cccgttttgt ttggttcacg ttttttccat ttgtgaaaga 300
 cattttttgt taattagaat caattccagt taaagtggga accagtagct tctcattcct 360
 ctaatgttat gtctggcaat aaaaaatgtt cagatgctat tatcgatcaa tgtaatgaat 420
 at 422

<210> 17467
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 17467

tcgattacat tgttcttgaa tagttctcca atctttggga agaacacttt aatcaatcaa 60
 aatggtaata atcaattact tctttgaaat aattgattac attgtatatt taattgatta 120
 caggcaggta ttacgagctg gtataagcta gaataacatt attagataat atgttcttta 180
 catcggttat ttatgacttt caacatcgtg ttttaaactg atgttgaaag taccgacgtt 240
 gataggatta ttgttaacat cggtttctta ataactgatg ttaacgaaaa ttaccacatc 300
 gatatataat aaccgatgtg ctatatgaat acaccaaaaa tgttat 346

<210> 17468
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17468

ggccaacagg ttagccttc tcaatgtatt ctgaacaaaa tttaatggct tcttctgcaa 60
 cgtacctctc aacaatagat gcttctggac gatatagatt ctttttatac cttttaaga 120
 tcttcatgta tcgctcaacc gggtagatcc accgtagata aacaggacca caacatttga 180
 tttctctgac ctgatgcaca atcaagtga tcatgatgtc aatgaaagca aggggaanat 240
 acatctccaa ctggcacagt ataattggca gctcattntn caactcatca nacttcacag 300
 gatcaatgac tgtgctacat atagcatg 328

<210> 17469
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 17469

gctcttggag ggaatggaag agggatatgc tgcttctctt tagattcacc tgcataataa 60
 ttgttaggta acttactctt taaattgttg tcatcatctt tctctggagt acagtgaggt 120
 tgggcacgtt catttgcgga tgacgaagat gctactgggt gaggtccttg aactgcttt 180
 cctgacctta atgtaatggc actcacattt ttgagatttt ggacagattg agaacgtaat 240
 ctatcagaaa tctgggactg ttgctgatct aactgtgtag ccaactatcc catctattag 300
 ttaagctcta atggaggctt tgg 323

<210> 17470
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17470

nttctttgtg ggttgatggt gttttgtcac gtagaatggc gtgatcactg gttgacattc 60
 tcaattagct tagttgcttc ttcttgggtc tttagcttta tttccctgc tgcagaaaca 120
 tctaacagtt acttggtttg tggctcagc ccatctatga acatattcaa ttggattggc 180

tctgaaatcc catgggtggg agttcttctc aataaacctc tgaacctctc gaatgcttca 240
ctcagagatt catcacggaa ctgatgaaat gaagagattg cagctttccc tttcgcagtc 300
ttggactctg gaaagtatct ctttagaaac ttttcaacaa cttcttccca ggttttcaga 360
ctgttaccct taaacaagtg aagccacctc ttggtctctc ctaccaatga aaatgagaa 419

<210> 17471
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17471

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gtcaatctta tatatggtgt ttgtaaagtt ggactcatta agaaagggtta atagaattat 120
ttgattacaa atagacaatt atttataact tttaaagtaa taataatagg atttaattat 180
cattttggtc ttgaaatttg attgattttt aaaattttta acataataaa ttgatacttt 240
agaataattn ttattatgac aatttttaaaa tacaattca aacaattaaa aagtaaaaaat 300
taatttattt caactaaaaa tcataaaaaa tgtcaattta ttataccaaa gataaaaaag 360
taatttataa aaaataaggg caaaaaaata tacaaccccc aaattcaagg acttatgtct 420
aataataata aaac 435

<210> 17472
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17472

ntgaggaaat tcaaacgaca ataaattttt actcgtatgt ctgattgagt ttcgtaatat 60
atcgagacgc tcggaattga atgttgaagg tctgagcaaa ttcaaacgac aataactttt 120
tactcggatg tctaatttag tcgtataata taacgagacg ctogaatttg aatgttgaag 180
ctctgagcaa attcaaacga caataacatt ttactcggat gtctgattga gtcccgtaat 240
atatcgagac actcgtattt gaattattgaa gctctgagcc aattcaaacg acaataactt 300
tttactcgga tgtctgatat agtcccgtaa tatatcgaga cactcgtaat tgaatattga 360

agctctgagc caattcaaac gacaataact ttttactcgg atgtctgata tagtcccgtg 420
 atatatcgag ac 432

<210> 17473
 <211> 301
 <212> DNA
 <213> Glycine max
 <400> 17473

ctctgatggg agtcatcttt acaactggag agaagatctt tgtgaaatca attccttggt 60
 tctgctgaaa ccccttcacc acaagtctct ccttgatatct tcttctaccg tcagattctt 120
 cctttagcct atagaccac ctattctgaa cgctttcttt ccttctggaa atttagttaa 180
 agaccacgtt ctattcttct gaagggatgt catctcatct ttcacgcta gctcccactt 240
 aatagtgtca ttccccgtg taggctcact gaaacattct ggctcaccag catcagttaa 300
 c 301

<210> 17474
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17474

gaggctttgc atatataact tatacacact cattaatatg accagattaa ttacaaagtg 60
 tttaactatc ttagctgaga atgaaggggg tatcttattg accaaaaata acgtaatgct 120
 tatcttcta gctaggccct aagtccaaat tctaagatgg tatcaaagtt atcctagatc 180
 cattgctggg ccatctacat tgccatgctc taagccgatg ccttgggcat gatgagagag 240
 ttctaaacc accttaattg cggtcactcg ttacctactc tagctgtggc ctttttgggg 300
 tctaccttaa ttgtagctc aagggtggcg tttactccca cattgattac agatattcct 360
 tanataaaat aagcgttaca agtgcgtaaa accctcactc ttgagctaac tattgtggtc 420
 gagtc 425

<210> 17475
 <211> 283
 <212> DNA

<213> Glycine max

<400> 17475

caataaggct tgcaaggctg atggcattgg gactgtcaga ctgagaatgt ttgacaacag 60
ggaaatgctg ctgcaagatg tgaggatatgt tccagaactc aagataaacc ttatctctat 120
aagcatgttt gaccttatag gatacactac aaagggtgag gatgggatga tgaagggtgc 180
cactggagcc tcaatcattg ctaagggaag ccgaagcaat gggttgtaca tcttggaaaag 240
atccacagtt attggacaag cattctgttg caagtcaaac aat 283

<210> 17476

<211> 370

<212> DNA

<213> Glycine max

<400> 17476

atgttttaga cctagtaatt gtcttagaat gggagctatt ctaagatgat ttcgttgtca 60
tagtcatctt atgtaacacc cttatTTTTT gtaaaataaa ttaaaacaga ttttatttaa 120
aaataaatag ggtttacgaa aataatgagg tttctgaatt aaataaaaag gaggaataat 180
ttattaataa aaatggttta agggaataat aaattatttc tagaaataaa actgttatta 240
ttattaataa agtaataagt ctttttaaat ataataagaa atgagtattt cgtgaagttc 300
tcactataaa agaccttgca ttactacat cgccttcttt ttcttaatct tttctttctt 360
caaccttttc 370

<210> 17477

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17477

tgacacattc tggcattgtg caccagggtga ttcaaattca tgaattcaat tattgcaact 60
cagaacaatg caacagcaaa aagggttccc actgaggaaa ctgttggtga tggggaagac 120
ataattagca agttgcatga aagcattctt ggtcacattc tgtctttcct tccaacaatg 180
gaatcagtc acactagtgt gttatcaaaa aggtgggttg atgcttggaa atccataact 240
ggcctacaat ttaatgatac tttgctttgt tttgggaaaa agatgcaaaa agaacagttt 300

gtgtgttttg tgaacatggt gtttcttcac cttgccaatt caagtatcca caatttctct 360
 ctttgtttta caggttatca gtatgattca accttgataa gtgcatggat ctcctttatc 420
 tntaaaagg 429

<210> 17178
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17478

ggagatggct aggtgtttgc ttcattgaaa agaattgcc aagagatttt gggcggaagc 60
 cgcaaatatt gcagttttca tgcttaacag actgccaa aaagctttgc aaaagaagac 120
 accatttgaa gcatgggatg gctataaacc tgagttgctc aatctgaaga tatttgagtg 180
 cttgtgcttt ttcttacatt cctcggggta agaaggacaa actagacatg agagcagaac 240
 ctggaacctt tgaggctata gcttaatttc acaggcctac atgatctant tgccacatca 300
 tgacaagtat tgtagcagaa tatgagattc tggactggat antggaactg g 351

<210> 17479
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17479

tgtgcaccaa tgcactctcc atgagaccat tcgtgtaaaa agtggagcct gggatgacaa 60
 tgggtgttttc atctacacga cattaaatca catcaaatac tgccttccca atggagatag 120
 tgggataata aagacattgg atgtcccat ttacatcact aaggtttctg gaaacaccat 180
 cttctgcttg gatcgggatg ggaagaaaag agccatagct attgattcga ctgaatatat 240
 ttttaaactc tccttggtga agaaaaata tgaccatgct atgaacatga taaagaattc 300
 gcagctttgt gggcaggctg tgattgctta tctccagcaa aaaggctttc ctgaggttgc 360
 cctccattnt gtgaatgatg agagaatacg gttcaatttg gcgttgagga gt 412

<210> 17480
 <211> 338

<212> DNA
<213> Glycine max

<400> 17480

tcagcccatc tatgaacgta ttcaattgga ttggctctga aaacccatgg gtgggagttc 60
ttctcaataa acctctgaac ctctccaatg cttcactcag agattcatca gggaaactgg 120
gaaatgaaga gattgctgct ttcccttccg tagtcttggga ctctgggaag tatttcttta 180
gaaacttttc aacaacttct tcccatgttt ttagactgtt acccttaaat gagtgaagcc 240
acctcttggc ctctcatgcc aatgagaatg agaataggct gagtcttata gcttcatctg 300
gcacaccaac aatcttaaca gtgtagcata tttcaatg 338

<210> 17481
<211> 338
<212> DNA
<213> Glycine max

<400> 17481

aggtgatgac attggaatat gtgaatgtcc attaactctga tgcattgacta acgagaacca 60
cccttacaac tacgtagact cataaccgga gatagggttg aggtcaagat ctaattctaga 120
gaattagttg gtagatgtgc acaccaagct tgaacattca ttccggaccc tttatgtgag 180
catcaatatt atggatcggc tcctagcagt taggacaggt gcaagggttg gaattgttatt 240
ggttggcatc agagtcattg tgagggcatg caaaattgaa gagatctgat cccttctgat 300
cccttgaggt aataaagata tatatacgcg tcgatgtt 338

<210> 17482
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17482

aacctgttcc attttactga tcgttgatag acatatatta taacaaatag gcgacatata 60
aataaatgaa ttaaatatgt ttgttttaaat aaatgatcga attgtattct ggatctctaa 120
taaaagaatc tattattttg agtcattaat atattaaaaa tcttgttttg aatctctctt 180
atcagntatg tgatgatgtg atatcatcac aaccattaa taaaatttga aaaattaatt 240

tgtaaggtga tacgtcatct gctcactaat gataaagatt aaaaataata cttatattat 300
 caaggacttc aaacaccata ctaaattcatt acacatgtgt aataaaataa tcatttatta 360
 ttgac 365

<210> 17483
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 17483

tctttgagaa aacttccttg agaagcttga gcttatctac acacacccat ctaaaaacta 60
 agctcacctc cttgagaagc ttccttgaga agctagagct tagctacaca cacccttcta 120
 ataactaagc tcacctcctt aagaagagaa gctagagctt agctacacac ccctataata 180
 gètaagctca ccccatgac aaggctaaaa aatcctacat ttctagggtta cccgacctac 240
 attatggagc cctaaatata aggctaaaaa ataatgaaat cctagtctaa tatgtacaaa 300
 gataagtggg cccaaccttg gcccatgtgc tcagaaatct accctgacgt tcatgagaac 360
 cctagggcct tcttcagtag ctctagccca atcctcttgg agccttttgc tcatggctct 420

<210> 17484
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17484

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 aaatccaatt gttctactac tgatctatct tcaatcattt taaacgaata caaagactgc 120
 tttaggtaaa gacgattaac taaagatttg gtcattgtaca aaccttcaag ctttaaccaa 180
 atcccagcag cagttgtttc cttagagact tgccctcagca cttgtctcc gagactgagg 240
 ataattgcat tgtgtgcctt ctgcagtagt gctttcttat ccccatcagc catcatcttt 300
 tcaagtttgg cttctccatc aagtgcctcc accaggccct gctaaacaag aatagctctc 360
 atcttcaatc gccatagccc agaattcattt tgccctgtga atnnntcaac ctcatacttg 420

<210> 17485
 <211> 416

<212> DNA
<213> Glycine max

<400> 17485

tcttatccaa gacactttct tgggtggtgaa gcttcttctt ccatggctta ttctctagtg 60
gatggtgcct cctctcacct cttctctttt atctttcgct ataactccat ggctgaaaat 120
caccattgaa ggaccttatt gaagcttaaa gatccaacct ctatgatgca atcctacccc 180
gcaagggcat tgggtagaag actcaaagta gattgggcta gagatccaag ggaaggccct 240
agggttctca tgagccttaa ggtagatttc gagcccatgg gctaagtatg agcctgctta 300
tctttgtaaa tattagaata gggtttccct tcgtctgggc cttgtacttt ggccattcta 360
atactatagg gtttttagcct tgtatttcga ggcattttga gtagtttttg tagtaa 416

<210> 17486
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17486

tcttctgatt gagcaacctc aataccaaga aaataacttca gatatcccaa atctttggtc 60
tggaagtgac taaacaagtg ttctttaagt tgggcaatct tagtagtatt atttcctggt 120
atcactatat catcaacata tacaattaga taaacatact tctcaggaga tgtatgacaa 180
taaaaaacag aatgatcagc ttcacttcat ttcaaccan naagttgaac ggtatgacta 240
aatttaccaa accacgctcg agggattgct tcaaccata gagagatcga tgtagcttac 300
atacgagaat actcccctg agcaacaaac ccaggagggt ggctcatata aatc 354

<210> 17487
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17487

tcagacaatc caaataatta agagacatta tttttctgtc atgagcatct ttaatgttaa 60
acattagtat atcttcgcta ttaaacaatca ttagaccaat agagttgcct aactttatct 120
ttatgagctc tattatataa catctttaat aaatntaaca acttttttca ctttttaata 180

atgtaactct tcatatctaa cttaaaatag atctaataaa ttattgtaga tgtttatatt 240
 tttttaataa ggaattatct taatattaaa aacagggtct tgcaaaagaa gaatatgtgt 300
 agtctcttgt catctanata actctaatag tanaagtggt ataaaattaa ttgttaagtt 360
 aataaagtct taattaaga 379

<210> 17488
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17488

gacactcaga gtactcaagc ttgttagttt gtcacccctt tcattagttt tttttttata 60
 cctaaaattg atttccagtg cctgttaatt tatgcaggat ttaccaagta gcaaatgtga 120
 aatctgaatg gaactgtatc aaaaccttcc ctgatttata tggaacaggt tttatacctt 180
 tttcccattg ttcattattc cttgagggtt tgatgatttc atgtttgttc agttactaat 240
 acacaactcg aactttttct tctcagggaa gaacacgtgt gtaaaatttg gtccagattc 300
 taaatacata gctgtgggat caatggaccg aaatcttcgg atattcggct tgcccgggtga 360
 agatgctcct actgagtcac aaaatgcctc agttgtacaa gccanagtct tgctctggag 420
 taaaca 426

<210> 17489
 <211> 251
 <212> DNA
 <213> Glycine max
 <400> 17489

atatcgagac gctcgaaatt gaatgttgaa gctcttagca aattcaaaca acaataacct 60
 ttactcggga tgactgattg agtcccggaa tatattgaga cgctcgatca tgaatgttga 120
 agctctgagc aaattcaaac gacaataact tttactcgg atgtctgatt gagtccgata 180
 tatatcgata cgctcgaaat tgaatgttga acctgtgagc aaattcaaac gacaataact 240
 tatttctcgg a 251

<210> 17490

<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17490

tcaacatcag accacttcca ggggtgctgga actacttcac atggacttga tggggcctat 60
gcaagttgaa agccttggag gaaagaggta tgcctatggt gttgtggatg atttctccag 120
atttacctgg gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaagagtt 180
gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaattagga gtgaccatgg 240
cagagagttt gaaaacagca agtttactga attctgcaca tctgaaggca tcaactcatga 300
gttctctgca gccatcacac cacaacaaaa tggcatagtt gaaaggaaaa acaggactnt 360
gcaagaagct gctaagggtca tgcttcatgc caaagaactt ctctataatc tctgggct 418

<210> 17491
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17491

tcaacattca attntgagcg tctcgtaatt ntactgtact caatcagaca tccgagtaaa 60
aatttattgt cgtttggatt ggctcagaga ttcaacattc aatttcgagc gtctcgatat 120
attacgggcc tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcagag 180
cttcaacatt caatttcgag cgtctcgata tatgaccgga ctcaatcaga catccgagta 240
aaaagttatt gtcgtttgaa ttggctcaga gtttcaacat tcaattttga gcgtctcgat 300
atattacggg actcaatcag acatccgagt aaaaagttat tgtcgtttga attggctcag 360
agattcaaca ttcaatttcg agcgtctcga tatattacgg gactcantca gacatccgag 420
t 421

<210> 17492
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17492

tcttagtttc agatgatgca gttgagtttg tagctactct catgcactcc tctaagtact 60
 atagcatcat ttatggcgct aaactgctgg gagttggaag ccatcttcac aattaaattt 120
 ctggcttcag caggagtcac gtctccaagg gctccaccac tggcagcatc tatcatactt 180
 ctctccatat tactgagtcc ttcataaaaa tattggagaa gcaactgctc tgaaatctga 240
 tgggtgagggc aactggcaca tagttnttta aatctctccc agtattcata caggctctct 300
 ccactgagtt gtctaatacc tgagatatcc ttctgatgg ttgtggctct ggaagcaggg 360
 acattttttt ctaagaatac tctcttcaag tcatcccaac tcgtgatgga cctt 414

<210> 17493
 <211> 360
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17493

ctgtcatcat gccgagactc aggaaggcca ataggtttag ctttctcaat gtattctgaa 60
 caaaattcaa tggcttcttc tgcaatgtac ctctcaacaa tagatgttgc tggatgatat 120
 agattctttg tatacccttt taagatcttc atgtatcgct caaccgggta tatcctccat 180
 agataagcag gaccataaca tttgattttc ctgaccagat gcacaatcaa gtgaatcatg 240
 atgtcaaaga aagcaagggg aaaatacatc tccaactggc acagtataat tgcggcctca 300
 ttntccagct catcaaaactt gacaggatca atgactntgc tacatatagc atggaagaaa 360

<210> 17494
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17494

tttagctaat tntatcgaac atatcttata taagctaata actaaaaaag ttacaagcta 60
 ctactagtat gtttgggtaca caagcttatt ttaataactt gtttttcata agctacttta 120
 aataacttat tttcattaac tgctttgaaa taacttatga aaaataagtt ataagctact 180
 ggtttttttc ttctcaattt tatctatttt aattgaaatt ttattttatc atttcattca 240
 actaaaaatc cctcatcatc ttttattttc tgtctggaaa aatgctctta tcttttatta 300

gtttgttgaa tgtcaaaacta tttatgtcaa taaactatta cattgcttat tgtaatttat 360
tattaaaata ttttgggtact aaacaa 386

<210> 17495
<211> 413
<212> DNA
<213> Glycine max

<400> 17495

ttagcgaatt actattgtta ttgaaaaata tgcttcttgt agataacatg ctaccgaaga 60
atcattatga ggcaaagaag atattatgtc ctattggaat ggaataccaa aagatacatg 120
cttgccataa cgattgtatt ttgtataggc atgagtatgc tgaattacgc aattgcccta 180
catgtgggggt gtcattgctac aaagtcaatt ccaacgattg cagtgaacat gctagctcat 240
acaaagatcg tccatccaaa gtgtgttgggt atcttccagt aataccaagg ttttaagcgat 300
tgtttgctaa tgcagaagac gcaaaaaacc taacatggca tgctgatggc aggatcaaca 360
atggattgct ctgtcatcct gttgattctc ctcaatggaa aataatagat cag 413

<210> 17496
<211> 269
<212> DNA
<213> Glycine max

<400> 17496

atcatgcgcc tattgccacc gtcataaata taggtatattt gagaatacat cttaaagacc 60
aatggttaac gatggctcta atgggcgggtt ttgcttgaat aaataataat gagatcattg 120
ctttagtaaa tgatgcggaa aaggataggg acattgatcc acaagacgca cagcaaactc 180
ttgaatagca aaagcttatt tgaataggcg gaaggcaaga gacaaacaat tgaagcaatc 240
tagctcttga cgagctagga cacgataga 269

<210> 17497
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17497

taactctcaa attccncttc atcccagggt cntnagtata agctttcctt cattanggac 60
 aacaacctca gcaccagggt tgacaatatc tgtcaatggg atcatgagac tccttccgtc 120
 caatgtggtg agatccaacg ttntaccagt aaaggcctca agaaaggta tctcttggtt 180
 gatcaccana tcattaccat cctttctata aagagcatgc ggccttctcat ctatcacaâ 240
 aatgagatct gctgggatga caccaagctc acygtacct ttctctggaa aggtattttt 300
 tgttcttttc ttccagccag gttttatctc gatagtcaaa atctctcca catccccaca 360
 tttgctgaaa tggaattgca tgtgtcaaat 390

<210> 17498
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17498

gagttggagt gcacattgta ttatttattg tggagagcca tgaaagaagc aaagcaacta 60
 gtggaaagga atgagaggaa acaatatgtc aaagtatttg attatgcaca tgaattattg 120
 aggagcaatc ctggatcaac agttaagatc aacatagtgc caagcccaga aggtccacca 180
 caatttcaca ggttatatat ttgtcttget ggctgtaaga aggggtttgt tgctggatgt 240
 agaccattca taggtctaga tggatgtttc ctagagagtg catatggagg aaacttgctc 300
 tctgctgttg ggcttgatgg caataaccac atctttgtta ttgcttatng tgntgcggac 360
 attgagaaca aagacaattg gaaatgagtt ttaactgtgt tgcataaaga tcttggggat 420
 t 421

<210> 17499
 <211> 332
 <212> DNA
 <213> Glycine max
 <400> 17499

tagctttcag caaattcaaa cgacaataac ttttttactc agatgtttga ttgagtcccg 60
 taatatatcg agacgatcaa aattgaattt tgaggttctg agctaattca aacgataata 120
 agtttttact aagacgtttg attgagtccc gtaatatatc tagacgctcg aaattcaatt 180
 ctgaacctca gagcaaattg aaacgagaat aaatttttac tcggatgtct gattgagtcc 240

cgtaatatat cgagacgctg taaattgaat gttgaagctc tgaccaaatt caaacgacga 300
taactttgta ctctgatgct tgattgagtc ct 332

<210> 17500
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17500

tgtaaatgag cntatatac cataagttct taattattta agggacattn ggataaatac 60
tttaattaag cacttattta taagttttta tcaaaattta agttaataat tgtcccccta 120
actattaaaa taagttataa aaaatcttat aaaaataaca taaataactt ttattagctc 180
gaataaacct tatttatcaa aatagcttac cttatcagta taagtattaa ttacctctnt 240
cccatatttt ttaatattta aggttattac acataaacta aanaatgata tattaaatac 300
atcgatgttt cataacttga ctaatagtaa taatgatatt aattagactc taaaattcta 360
aagtatcaat tattttgaag agaagatgaa aagttagaat gtctaaaaat aca 413

<210> 17501
<211> 411
<212> DNA
<213> Glycine max

<400> 17501

agcttgcaact caagattctc cttgcctggc acttcaaaac cttctggttg ggtcatatag 60
atgtcttcct ctaaattccc atgcaagaat gcagttataa catttaactg ctcaaagtga 120
agattctcta cagctgctat actcagaata actctgatgg tagtcatctt tacaactgga 180
gagaagatct ttgtgaaatc aattccttgt ttctgctgaa accctttcac cacaagtctc 240
tccttgatc ttcttctacc gtcagattct tccttttagcc tatagacca cctattctgt 300
aacgctttct ttcttctgg aaatttagtt aaagaccacg ttttattctt ctgaagggat 360
gtcatctcat ctttcatcgc tagctccac ttaatagtgt cattcccctg t 411

<210> 17502
<211> 407
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17502

agcttggatt ttcttttagt aaggaatcta tccttcttaa gatagagcca aaccaatcc 60
ccctcattaa aaactagctc ctttcttctt ctattgcctt tagttgaata cacctttgtt 120
tggtttctcta tgtgggtctt aaccctctca tgcaactttt ttacaaactc tgacctagat 180
tcccccttctt catgtataaa aagaagtgtc aagtgggagg ggaatgaggt ctaggggtgt 240
taggggattg aacctataga caacctcaaa aggggattac ttagttgttc tatgaacccc 300
cctgttgtn gcaaattcta catgaggaag atactcatcc caagacttat ggttgccttt 360
cagaagagcc cttaaaaggg tggataaaga cctattcact acctctg 407

<210> 17503

<211> 418

<212> DNA

<213> Glycine max

<400> 17503

cttggagaga acacaaagtg gtaggcctat ataagtctag tttagtata ggggaaagga 60
gtaaacgtcc aatgagtttg ataaattttg cgaagaagaa ggtgtcaaca ggcagttgac 120
tgctggctat atacctcaac aaaaagggtg attcgaaaat aagaatcaaa ccgttatgga 180
gatgactagg tccatgcttt ttgagaaagg aatacaaaaa taattcttgt ccgaggctgt 240
taatatagcc ttgtacctat tgaatagatg cccaacaaaa gtggtacgga atatgacacc 300
atttgaagca tggagtggaa gtgttgatgg attggcaagt gcaccaattt gtaagaaatc 360
gttggctaca cgaatcattg aggtggggag gactataaga catgactgat gggatgga 418

<210> 17504

<211> 332

<212> DNA

<213> Glycine max

<400> 17504

ggacctaaaa actcaagcta gcggtaaata ggaacgcaac atctccctgc atactataga 60
cagacaggga aatggaggct gcaaacttag taccgcaatt ccttacacca aattccacac 120
ttcgatatac cagccacttg ggaatgactt tgtaaagcaa gcaacgctta ggacaataaa 180

gagagtgact ctggtggcac catttggggc gtgctttgat tcaagaacca ttggcaagac 240
 cggtagtgga cccaatgtgc cgacaattga tctgagtctc aaggggggag ttcaatggag 300
 aatctatggg gcccaattcaa tgggtcaaggt tc 332

<210> 17505
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 17505

agcttccaca accccaacta tagtcctagt aagctccgct gcctgtctct cggataatg 60
 cccacgtga ataatcctat cgaaaagctc tccacctgca catagttcca tcacaacgtg 120
 gacagccatg gcatcctcat atgcaccctt gatggatata acattaggat gccagccaa 180
 gtggtgcatt atctgaatct ctcttctcac atcctcgaca tcatcatcgg tgacgagctt 240
 cctctttgca atagatttac aggcatctc ctgtcctgtt gccttctcca cacacaagaa 300
 tgttggtccg aactgaccct gtccaagttt tctcccaaga gtgaagaact ccttgaaatt 360
 atctgtctct ctttgcaaca cagaatcaac acgaagccct 400

<210> 17506
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17506

acagcttact aaaacaggag cagacctcnn ctttatttta tttttataga tcagnagggtg 60
 gagctcttca atactccact ataaccagac ctgaactaag ttttgctgta aacaaagtct 120
 ggcaattcat ggccaaccct cttgaatctc actggacagc agtgaaaaca attctcaggt 180
 atctcaaagg ctctttacac catggcctac ttctcaaagc tgccactcct cccattccca 240
 ttaaaggcct ttgtgatgca gactgggtgt ctgaccctga tgatcacaga tctacttcag 300
 gagctgctat ttattttggg cctaacttta tatcttggtg gtctaagaaa caacagattg 360
 ttgcaagatc aagtactgag gctgagtatc gaagcccagc acaagccttc t 411

<210> 17507

<211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17507

tactcaagct ttgctggtgt cgagaagata tcacatgtn gncatcatta taaatgggtt 60
 agaatgcgaa tgtatgtata catgattttg atgatgcaa agaaaaatca aacaagggtt 120
 cttcaaata taagcatttg cttcaagaat aattcaagag tgcttcaaca aacaaagcct 180
 tgtttcaaga ttcactaaag accaagcctt gccttaaaac aaagtgcttt caagacatgc 240
 aaggctctgg taatcaatta ccaggaagtg taatcgatta ccagaagaca gggttgagaa 300
 atagctgttg aaaaagggtt tgaatttgaa ttttcaacat gtaatcgatt accatatgtc 360
 tgtaatcgat taccagcaac gaaactttgg aaattcaaat tcaaaagtca taaccctctc 420
 aaataataact gtgtaatcg 439

<210> 17508
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17508

tgctaaccce tggaagctcc taatatctcc ctcaactttt gtggtgggcc attcttggat 60
 ggccttgatt ttctcaaggt ccaattggac cccatttctt ccagctacaa aacctaagaa 120
 aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggy tgtttttccc 180
 aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctaggctcc tattgtacac 240
 taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
 cataagcctc ataaagggtc ttggtgcatt agtgagccca aaaggcatct ctagccattc 360
 atacaaacca aacttgggtc tgaaagcggg tttccactca tcaactctctn tcatcttgat 420
 atggtgataa ccactt 436

<210> 17509
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17509

tcaagcttat taagtatatg tatataaatg tattaacata acattaaaat actaacataa 60
ttatatatat aaatttatatt aatgtaaaaa aaattaatat atatatatat atatatatat 120
atatatatat atatatatat atatataaca gacatatataa ttcagtactt ttgtgcttac 180
gagtcaaagt ttttatacaa gaaagtcgaa gtatatatct tatttgatac aaactctntt 240
ttttttttgc agatccattg taataatgag aaaaatttcg gcatatccaa aaaaccgggc 300
aataatatca aaattagata aattggccca caccggctta caaatgggat ggccaaatac 360
attacaaaat tntgctttcg ccaatgatct 390

<210> 17510
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17510

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tgcgcccttaa tcggacctcc gagtgaaaag gtatgaccat ttgaataact caagagcttc 120
cattgttcaa tttcgagcgt ctcgatatct tatgtgcttg aatctgacct ccgtgtgaaa 180
agatatgacc atttgaattt ctcgagagct tccgttgctc aatttcgagc ggctcgatat 240
cttatgcgcc tgaatcggac ctccgagtga aaagttatga ccatttgaat aactcaagag 300
cttcattga tcaattacga gcgtctcaat atattatgtg cctgaatcgg acctgcgagt 360
gaaaagttat gaccatatga attgctcaag agcttccatt gtccaatntc gagcgtctcg 420
atatataatg cgctga 437

<210> 17511
<211> 378
<212> DNA
<213> Glycine max

<400> 17511

agcttgctgc cacggttttt tccgactatg ctcttgctgtg gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatgggtg atacatggac agagatgaaa aagatcatga 120

ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caagggggta actatggctc gatttcttaa tggatgtgct catgattcaa 240
 gcaaatattg aagaagatga ggaggtaact atggctcgat ttcttaatgg tttgactaat 300
 gatatcccgat gatattgtga gctgcaggaa gtfgttgaaa tggatgattt gcttcacaaa 360
 gcaatccaag tggagcaa 373

<210> 17512
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 17512

tctcgatatg ttatgcgtct gaatcggaca tgcgagttaa aattatgacc attttaattt 60
 cccgagagct tccgttggtc aatttctagc atctcgatac gctatgtgcc tgaatcggac 120
 atgcgagtga aaagttatga ccatttgaat ttctcgagag cttccgttgt taaatttcta 180
 gcgtctcgat acgctatgcg cctacatcga acatgcgagt gaaaagttat gaccatttta 240
 atttctcgag agattccgat ggtcaatttc gagcgtctcg atatgttatg tgcctgaatc 300
 ggacatgcgc atgaaaagtt atgaaccatt taatttctcg ggagcatctg ttgttcaatt 360
 tctagcgtct cgatactcta tgcgcctgaa tcggacatgc gagtgaaaag tataaccatt 420
 tgaatttctc gagagcttc 439

<210> 17513
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17513

ggaccttgat ctagctttat aaatgcctat taatagacaa atgctgtttt cagtatttat 60
 ttggtttgaa ttcatacagg gttgatcgag actgacttat ttgtaatgaa atggaattta 120
 aatttgtaat taagaacctg ggtagaaaga gtgaaagata gatctcacta aagtgggtgag 180
 taattntacc atcaaattta atcattcata aaatcgatat atattaattt cataactaata 240
 atataaagaa aaatatcact catttatgaa taatcacact taactaagaa gtgtcaaaat 300
 tatagcatta attcaaataa aaaaaataat taaggaatgt aagtatanat tattaatta 360

aaaacttcat atg

373

<210> 17514
<211> 407
<212> DNA
<213> Glycine max

<400> 17514

ttctgcttga aattgaaaac ggaagctcta agaaaagtca aacgacaata ccttttaact 60
cggatgtccg attgagccct gtaatatatc gagacgctcg aaattgaaaa cggaagctct 120
aagaaaagtc aaacgacaat aaattttgac tcggatgtcc gattgagtct cgtaatatac 180
caagaccctc gtaattgaaa acagaacctc tgagtaaatt caaacgacaa taacttttca 240
ctcggatttc cgattgagtc ccataggata tcgagacgct cgtaatttaa aacggaagct 300
ctgagaaaaa tcaaacgaca ataactttta actcggatct ctgatcgagc cctttaatat 360
atcaagacgc tcgaaattga aaaccgaagc tctaagagaa gtcaaac 407

<210> 17515
<211> 391
<212> DNA
<213> Glycine max

<400> 17515

gctgatcttt caacatcctc catcttttag aatttccaaa gcatattttc tttgcgaaat 60
gaatatacct ttcttggatc gagaaacctc catgcccaaa aaatacttca agtcacccaa 120
atatttaatc tgaatcatta ccagttatga ggatgtcatc aacatagatc aataaggcag 180
taaagatgtt gcctttctta catgtaaaca acgaataatc tgcttttgat tgaataaatc 240
cagcaccttg aatagttgta aagaacttgg cagaccattg gcgagaggct tgttttaatc 300
catataaggg attgttgagg tgacacacaa tgttctcccg ctgtcgctga acactaggag 360
gaagagacat ataaatttct tcagaaagat c 391

<210> 17516
<211> 376
<212> DNA
<213> Glycine max

<400> 17516

catgtgactg aactttgccc aatttatatg aaataaaata aatgcattct caagttttgt 60
 ttgctgaatg ctacaagctt tgcaaaacgt ttttgctgct ttagtctatt ctgcaaatac 120
 tagtattgat tatgtgttgg agtcattatt tgcctctgct aagccttctc cacagtctgg 180
 tggcattgct aaacaagctt tgcattcgat agctcagtgt gttactattc tatgccttgt 240
 tgctggatgat cagaaatggt catctacagt gaaaatgctc actgacattc tcaaagatga 300
 caacagttct aactccgtaa gcttttctct tcagtgaaaa tgctcatcta cagtgaaaat 360
 gctcactcac attctc 376

<210> 17517
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17517
 agcttgaagt aaattcaaac gacacacaac tggatctgag atttccgaat gaattccgta 60
 gtatatctag acgctcgaaa ttcagaacaa aagctctgag caaattcaaa cgaaaataac 120
 tttttactcg tatgtccgat cgtttcccggt agtatatcga gaccctcgta attgaaacca 180
 gaagcccgta gcaaactcaa acggcaataa attctaactc ggatgtccga atgaatccca 240
 tgatatatcg aggcgatcgt aattgaaaac agaagctatg agcaaatgca aatgacaata 300
 actttttact cggatgtcgg attgagtcgc gtaatatatc gagacgctcg gaattgaaaa 360
 cagaagctct aagcatattc taacgacaat aactttttac tcggat 406

<210> 17518
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 17518
 agaaactcag ccgagctaag cccagagca taaaaatctt gtgttctttt gtgccaatca 60
 ttacttctcg cataaaccag accttagaaa caatagtatc tttggtggtc atcaatttcc 120
 aaccttgctt tcctagcatg acaagattaa aaagcgtgaa gatgcttgaa ccccatacct 180
 ccaaattctt tgttcattgt caacctctcc caatttaacc atttataccc ttgctcgagt 240
 gattgttaca tactacccca ccaaaaagag ttcattatct tttttctaatt tcaccctgaa 300

gagtagatgg aaatagaaaa atgcttatac aataagtggg attgagtgag ctactaactt 360
aatgagaatt tctttatcca ccttggaag atactcaatg gaccagggat gaatacacat 420
ggaaagtcta tctt 434

<210> 17519
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17519

agcttgccct tccccttgat atattngagg gactcatggt cactatgaat gacaaattcc 60
ttgggataaa ggtagtggtg ccatgttttc aaagcccgta ctaaggcata caactcctta 120
tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180
tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca cttaatttca 240
aaagattttt gaaagtttgg caacgaaagt atgggggcat tagttagctn ttgcttaaga 300
acattgaaag cttcttcttg tttctctccc catttgaaac caacattttt cttgagcact 360
tcattgagag gtgctgcaa tgtgctaana tcttcacaa atcgtcta 408

<210> 17520
<211> 408
<212> DNA
<213> Glycine max
<400> 17520

tttgcttcaa gaaaaatggc cttagcaaac ttcttatttc cagaaggaaa ttcaatcaat 60
agacctcaa tctttaatgg agagggttac cactactgga aaaccgaat gaaaattttt 120
attgaggcaa tagacttaaa tatttgggaa gccatagaaa tagggcctta tataccacc 180
acagtagaaa gaatcacaat agatgggagc acaacaagtg aaagcataac aatagaaaaa 240
cctagagata gatggtctga agaggatgga agacgagtac aatacaattt aaaagccaaa 300
aacataatta catctccctg tggaacggat gaatatttca gggtttcaaa ttgtaagagt 360
gctaaggaaa tgtgggacac tctacaatta acacatgaag gaacaaaa 408

<210> 17521

<211> 386
 <212> DNA
 <213> Glycine max

<400> 17521

caagctttga tctcatttgg agaggttaat gaaacaacga gatgatgcg tccatgagag 60
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
 tgggtgttct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
 aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg tattctcatg 240
 caacaactga ggaggacaaa aaggtgaagc ttgccgccac ggaattttcc gactatgctc 300
 ttgtgtggtg gaacaagcta caaaaggaga gagcaagata tgaagagcca atggttgata 360
 catggacgga gatgaaaaag atcatg 386

<210> 17522
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17522

ntgagaaaat tcanacaaca ataactntnt acacggatgt ctgatagagt catgtaatat 60
 ttcgagacgc tcgaaattga atacggaagc tctgagcaaa ttcaaacgac aataactttt 120
 tactcggatg tctgattgaa tcccataata tategacaag ctcgaaatag aatcttgatg 180
 ctctgagcaa attcaaacga caataacttt ttactcgaat gtctgattga gtcctgtaat 240
 atatcgagac gctagaaatt gaatacggaa gctctgagca aattcaaag acaataactt 300
 ttactcggga tgtctgattg agtcccgtaa tatatcgaca cgctcgaaat tgaatgttga 360
 tgctctgagg aaatacaaat gacaataact tttttctcgg atgtccgatt ggtcccgtga 420
 atatatcgag acgctcg 437

<210> 17523
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 17523

tcatgcttaa gtagtatgg aacaacttca ttactgttgt ttaacacata caagagagct 60

tatgacaaat cttctagact tggagtcatt acatgcaatc ctcttgaacc cttaccaccc 120
 actctgacat catgctgaaa cttaagaagg ccaacagggt tagccttctc aatgtattct 180
 gaacaaaatt caatggcttc ttctgcaatg tacctctcaa caatagatgc tcctggatga 240
 tatagattat tcatatacat tttaaaaatc ttcattgtatc gctcaactgg gtacatccac 300
 tgcaaataaa caagaccata acatttgatt tctctgacga gatgcataat caagtgaatc 360
 atgatgtcaa agaaggatg gggataatac atctccaact ggcacagta 409

<210> 17524
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17524

atactcaagc ttcaagaatt atggcctcat caaactatct gntttcgtgt gaaattgtat 60
 aaatagacct cctatcttta atggagtggg ttaccactac tggaaaaccc gcatgcaaat 120
 ctttatagag gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc 180
 ctctataata gccggaagtg caacaataga aaaacttaga gcagactgga ctgaggaaga 240
 aagaagatta gtacaatata atttaaaggc caaaaatatt attacatttg ccctaggaat 300
 agatggatac tttagggttt caaattgtaa aagtgctaag gatatgtggg atacactaca 360
 agtaacacat gaaggcacia cagatgttaa aatatctagg ataaacactt taactcgtga 420
 atatgaac 428

<210> 17525
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17525

agtttgtgaa aaccttgaca caattcatgc aagtcttcat ctcaaaccat aaaaccacga 60
 aatcggcaat caaaaatctt gaagttcaag taggccaact tgcaaagcaa cttgoggaga 120
 agtccaatgg gaattttgtg gctaacacag agaaaaacca caaagagaaa tctaaagtgg 180
 tacttacaat aagaaaaagg atggatggcc ttgttagtga taatttagtg gaaggtgtag 240

taaaagatat gggatgatgcg aggaaagtgt angagagaga gacatagctg agaataaaga 300
gaaacaaata agtggttgaat atgtagaana aaccagaaaa gtggagaana aaagaaaaac 360
acttttaagg aaggagttga cgaggcatat cttcta 396

<210> 17526
<211> 290
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17526

agctttgatc atctacctta tttctgacag ccagtgggtg aatccagtcc aagtgggtccc 60
taagatgaca gacctcacia taattaagaa tgatagggat gagcttatcc ccataagaat 120
gcagaacagt tggcgagtct gcattgatta taggaggctg aaccaggtaa ccaaaaaaga 180
tcatntttcc ctgcctttca ttgatcaaat gcttgagcgc ttggctggta agtctcatta 240
atgctttctt gatggctttt ctggttattt acaaaatcat attgctcttg 290

<210> 17527
<211> 330
<212> DNA
<213> Glycine max
<400> 17527

tcaacatcag accacttcca gggatgctgga actactttac atggtcttga tggggcctat 60
gcaagttgaa agccttggag gaaagaggta tgcctatggt gttgtggatg atttctccag 120
atttacctgg gtcaacttta tcagagaaaa atcagacacc tttgaagtat tcaaggagtt 180
gagtctaaga cttcaaagag aaaaagactg tgtgatcaag agaatcagga gtgaccatgg 240
cagagagttt gaaaacagca agtttactgg atactgcaca tctgaggcat cactcatgag 300
ttctctgcag ccattacacc acagcaaaat 330

<210> 17528
<211> 387
<212> DNA
<213> Glycine max
<400> 17528

ttgcatgccg gctttgttcg aggatgccta cccattaccc attaaatata gactagttga 60
 tagggccaca agaccctgcc tacttagctt cttagatgca tactcagggg acaaccaaatt 120
 acggatgcat ccacaagatg aggagaaaac aaacttcata acctaggcga ctaactattg 180
 ctatcagatt atgcccattcg gctataaaaa ggctagctcc acttaccagc acctattgga 240
 catgatattc aaagaacaaa ttggaaagaa aatggaggta tatgttgaca acatggtggg 300
 atagtctaatt gatgcagaat cacacaccta tgattttgaa gaaatatttg caaagatctg 360
 aagcctaaca tgtaactcaa ttcgaag 387

<210> 17529
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 17529
 actgggataa acttcttgaa gggcttcttt gtctgcttgc attccaagca atttctacat 60
 ttctcctgtg gttattgtag ttgaagaatt ccttgtgcca acttgtgcat ttgagcaaaa 120
 tctttgaaat tcaagtgtcc aagcctacag tgccaaagcc attcttcttt gttgctcaca 180
 gcaactaagac attcgtgctc aaatgcttgc gttccaattt tgaaagttct atttctggtc 240
 aatgggtgtt ttatgattag atttctgggt ttgtcatata ccagcatcat catgtcctcc 300
 atagttatct taaagccttt ttg 323

<210> 17530
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 17530
 agtttgtcgt ctcgagatg tccgactatg ctcttgtgtg gtggaagtga ttatgcaagt 60
 tgaagtggac gtttccattg ggaaatacaa tgataaggta ctttgtgatg ttgttcctat 120
 ggaggccagt cacttacttt tggggagacc atggcaattt gataaaagag ccaatcatga 180
 cggttacacc aacaagatct ctttcattac ttttgggtgt gcataaaaaa tgtacaatgt 240
 aagtcggcta ggtatTTTTg tgcgagctca accgacattt tgtttcgagc gaaactggca 300
 tgttcccat tttattggcc agtaaactcat tagccacact cggcataaaa atatttgcta 360

<210> 17531
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 17531

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agottgttta gaataaccag atcaaatgc acaatttget acgtgacatg ggaagagaaa 60
ttgttcgtca aagttctcta gaggaacctg agaagcgtag tcgattgtgg gttcaccaag 120
aagtgcctga tttgttggtta gaacatactg taagaacttt ctctacatat tattttgaaa 180
cttttgatca tatgtgtttt tatcatgac acaaaactaa atttaaataca tcttgttctt 240
tttaagttat gctaattttt gtgggattca ttgttcacaa aaataaattt gaatgattct 300
gctcttttaa tgtgatgcaa tggtattaga cccggattta ttcagaccat gttgcttgca 360
aaccagtgtt cgactgtctg aactac 386
```

<210> 17532
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 17532

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tctatTTTTG cccttgcaga aattaatgtt ctatctaate atgacagttc accaggaaat 60
caggttactc tttcatttga agagtatact gctctgacgg gcaaagctcg agatgcagag 120
gaacaatcta agaagagagt tgcaagttct atgcttgaag ttgacgaaac aagtttgtcg 180
aacatggaca ttttgaaaag ggtagaagaa gctacagaag aagttaaaac tagcaagaag 240
gcccttgaag aagctctaga aggggtagaa gctgccaata gagacaaagt agcagttgaa 300
gaggctctaa ggaattggcg atctgagggg caaaataagc gttcttctat acacaactct 360
accaagttca aa 372
```

<210> 17533
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 17533

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gcgcctgtta tacttgcgaa tctttctgaa cacctattcc aagactgtga tgtgtcgggt 60
```

catgctataa gacttgacag gcatgtcatc aacatagacc tcgatatttc atcctatttt 120
 ttgtttggag acccggtcca tgaacctttg gtacgtggcc cctgtagtct tcaatccaaa 180
 gggcataacc atgttacaga aattgatgtc ttcaattatg aaggcaattc tctcctcgtc 240
 aggaggggtgc atcctgatct ggttat'accc tgagta'cgcg tctatgaaac ttaacaactg 300
 gaaacccgac g 311

<210> 17534
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17534

agcttattac tttatntttt cggatcgtgt aattttaa'ac ttataattga tagcagaaaa 60
 taaaatttat aacttg'gtaa aataga'attg tttgatatat ttaattattc tatcagttga 120
 taaatataaa atgatataaa aatgtttata tactattgtc acataaaaaat gttntttagg 180
 taactataat tttaa'atatt tgattc'ttat tttttttgga aatatataat attttattaa 240
 aaataaaata tcagaaagga tatta'aaata gttaaaagac ctataactat taagaagaga 300
 tgataaataa agtggattaa agcaagaata aaaatgaaaa gaaagaataa tattactaat 360
 acatgctttt aacgagttat aagttaac 388

<210> 17535
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 17535

agctttacac agtttat'ttt tctcaaactt gagttttgga agaccaatta ctaagtcttt 60
 cctaattaga tgattt'aaat gattcatatt aatgtgtgca gtcctacaat accacaacca 120
 tgaatcatct atcttactca ccaagcaact tagctcatga aaaactgcat gctcaacatt 180
 cagcatataa atgttaccta ttctcttacc aatgtggata actttatcgg atatggcttc 240
 acttataaga catcaatcta t'g'ttgaattc aatcttgaaa cttttatcac aaagttgact 300
 aatacttaga acggtatgct ttaatccatt cataattaac acatatttca tctaagg'ttt 360

<210> 17536
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17536

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agctttcaca acaaatTTtT caatatgttt tTgaacaaaa tgaagtacgt aactaattac 60
cactaatata tactgtgact acttagaagg aagggatagg tcatgattag tccaacctaa 120
tctgcctaataaaactaatt acacaaaagca aagcctaaat tcgtaaccca attattcaag 180
tgcagagggt ctgacttcca atattaattt gaccctcaaa atggaaggat tggcccaagc 240
ttattgatgc aatcctccca aggaggggac ccataccat agccatgact aggagactcc 300
aggaagattg ggctagggat gcaagagaag gccctaaggt tctcatgagc cttangatag 360
atnttggggc catgggctaa gtatgaaccc acttatcttt 400
```

<210> 17537
 <211> 362
 <212> DNA
 <213> Glycine max
 <400> 17537

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agcttttgggT gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
tcttctattt tcagattgcg aatgcctcta acagcacctt tgtcaatgag tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatatc tgacttcac tttcttggag 180
gatagacatg tggaggagta actggtttct tgagggtgtcc ataggtagca gatgtccttt 240
gatctgctgc cttttattag aacttcacac ttctcatttg tcactaagca ttctgacctt 300
gtgaagttta cattgaatcc ttcatacac aactgactga tgctgatcaa tttgcagtca 360
gt 362
```

<210> 17538
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17538

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agcttttatgc ggcataattt tagttgtttc ttcttccttt atcttttaag atagtccata 60
```

caatcaggtc tctccaattt caagacatgt tattctatta agaaattata agaactttga 120
 atttttaaaa ctattcatat agacattagc aactcacatt gttttaaata gaaattatgt 180
 gcgtgtttgg atgaacatta atataattga ttntgaatga aattaatttt ataaaattga 240
 ttttaaagtaa tgtgatttat atttgaatgt ttttaaagta tgtaggagt aaaacttaat 300
 attaaaattg tgtnnttata catatatnta tgacaaatac taattacgtt gnccatgatc 360
 tttttatggt cacctatggt 380

<210> 17539
 <211> 300
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17539

atgacacagn cttatggtct ttctgggatt atatgctgca tacatcgggc tcttggcata 60
 aatggagaaa gtggatccca gcttgtcttc actcagcaac catttctatc cttattaatg 120
 gcagccctac aaaagagttc accccatcta gaagcttgag gcaaggagac ccctaacc 180
 ctttactctt taacatagtt gggaaagcat ttcaggccta atgaaggaag cagtccggaa 240
 gaatctctat accactacag gttgcgatga aatatgagcc cacaatattc tgccaaatgc 300

<210> 17540
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17540

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 attaattgatt aaatatggtg aaataaagaa aaaaattaaa ataaagttag ataaaatatt 120
 taatttgata aaatttatta acttctaaaa tgatatacag atacacgtgt atttaggaat 180
 gaaaacataa tatacatggt aattcataat ataagaaaaa gttataatat tttaaaatta 240
 gcataataaa aatacagacg tacacgtggt tgtatttctg ctagntatat ataaaattaaa 300
 ttattaaata tanaacacat taatttttaa tcaacatact ctattagaat aaatgatcta 360
 tactggtttt caatggtaat ttggtggttt tgtttaaatt tgttatattt tctaa 415

<210> 17541
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17541

cgccaaatgc tctataggct gatgagttgg tccatcttct ctaagtccaa tcgtatcatg 60
 agtcatcaca taaataactt cagcttcaca cagtgcataa atccttatgg cagctctcat 120
 gtagtcagtg aaaacaaagg gcatntaaat tttgctgaaa cagatttctt gtagcatatg 180
 cagggctttc tggagtgtat gtctgaatgt tgaaatttaa ttaaaagggg agtcaataat 240
 ccagaaacaa atgatggaag tcaagtttta tttatcttta aagttgaagg ctatacatgc 300
 atgaagcana aagatggatg atgagtgaag atgcaatgta cttaatatga aatttactgt 360
 attaggaaag t 371

<210> 17542
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 17542

agcttatgag aaatccctgt tttgtggaga gataagtcct tgtttggctg atttaaagca 60
 tttgaatcac ttgaacttga gcggcaatta tttccttgga gcaggtatgt caattccttc 120
 tttccttggg acaatgactt ccttgactca cctcgacctc tctcttactg gattcatggg 180
 gaagattcca tctcagattg ggaatctctc caatttggtc tatcttgacc tcggagggtta 240
 ttctgtcgag cctatgtag ctgacaatgt agaatgggta tcaagtatgt ggaagcttga 300
 atatcttcat ttgagttatg caaacctatc caaagcatta cattggctac acactctcca 360
 atctcttctt tctttgaccc acct 384

<210> 17543
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17543

agcttatgct gcaaacatth ataattagacc tgctcagctg caaatcaac atcagcagaa 60
 taattatgac atttcaagca acagatacaa tccaggttgg aggaatcatc caaatctgag 120
 atggacaagt cctccacaac aacaacaacc tatccctcat ttccagaatg ctgctagtct 180
 aagcaagcca tatgttctc ctctattaca gtagcagcaa cagcagcaat cacaacaaag 240
 acaacaagaa actgaggctc ctectcaacc ttccttagaa gagttagtga ggcaaatggc 300
 catccagaat atgcaatntc agcaagagac aagagccttc attcanagtc tgac 354

<210> 17544
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17544

acttcaacaa tattacaaaa ttgattttta tatcttttaa ttgattaaaa atatcatttt 60
 aaaataatta acaaatatgg tttttgaata taaaaaacac acgctatttc aacaaattta 120
 atataaatat ttatttttac gataaatata tttaaaaatt aattatgaaa agaattcaagt 180
 ccatcttaca catattatct caaaattgaa taattatata ttcattttta acatatttac 240
 attctttttt aatttatata tttcatataa gtattccatg actattactg cttagtataa 300
 aattaaatta taataaattt cattagggtta agtattttta atgataacat aggtttaatt 360
 acaattttta ataattcatct tctttgatnt aatataatat atatatatat cattgatatt 420
 ttgacatg 428

<210> 17545
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17545

ttgaatgctc tattcaatgg agttgacaag aatatcttca gactgatcaa cacatgcaca 60
 ngggccaagg atgcatggga gatcctgaaa accactcatg aaggaaacctc caaagtgaag 120
 atgtccagat tgcaactatt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180
 tgtattcatg acttccacat gaacattctt gaaattgcca atgcttgac tgccttggga 240

gaaaggatga cagacgaaaa gctgggtgaga aagatcctca gatctttgcc taagagattt 300
gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360
ctcattgggtt ccctttcaac ctttgagcta ggactctcgg ataggact 408

<210> 17546
<211> 443
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17546

tttcttagtc gtctgtaaag atgattaggt gttanttagc ggcgatgcct actgtagact 60
gtgtgtctcc catgtttaag ttgtatgtaa cttgtatttt cttcacagat ggggcatgcg 120
tgatgaccct taacactgta accgctgaga ttcccatatg ctggaaagtc attaattggt 180
caaaaaagca ttgcacgcat ttcaaacgct tccttgcgaa acgcatcata cactacaacc 240
ccctcgtccc acaactttct caaatcttca atcaacggac ttagataaac atcaatgtca 300
tttctgggtc gtcttgggcc cgatatcatc atagacaaca tcatgtattt tcgcttcatg 360
cacaaccaat gagacaaatt gtaaattact agtagaactg gccatgaact gtgttgagt 420
cttaaggagc catatggatt cat 443

<210> 17547
<211> 385
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17547

agcttttatt ctagagcatc ccgaaggaga aagctcacia gtcacaagtg tcttgtaaga 60
ccaaacctgg aatttgcttc gagggaggga gaccaagaaa aaaaaatgtt tacatgtata 120
taacatataa aaaaagggtt aatatatgat atatatttaa tattttttta taaaaatata 180
tataacaata tcaagtaaaa aacattatta tctaactaat tatatcattt atataaatat 240
aagaaacaaa tataatattt nttcttgtaa ttataaaaaa agacaaactt gtattttaa 300
atattaatta tacatttata taagagacaa atagatacaa ttnttatatc cttaatgtat 360
tggtgaagtt actaatgaga taatc 385

<210> 17548
 <211> 372
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17548

agctatgacc attcgaattt ctcaagagtt gcggttggtc aatttcgagc gtgtagatga 60
 gttatgtccc cgaatcggac atctgtgtga aaagttatga ccattcgatt ttctcgagag 120
 cttccgttgt tcaatttcga gcgtctcgat atattatgac cccgaatcgg acatctgtgt 180
 gaaaacgtat gaccattcga ttttctcgag agcttccgtt gttcaatntc gagcgtctag 240
 atgagttatg tccccgaatc gaacattcga gtgaaaactt atgaccattc gaattttctcg 300
 agagcttccg ttgttcaatt tcgagcgtct cgatatatta,tgttcccga tggggcattc 360
 gagtgaatg tt 372

<210> 17549
 <211> 215
 <212> DNA
 <213> Glycine max
 <400> 17549

ggtttcctga acataggaaa tcaaagcttc aacaatgggg agatggacca tttcaagtgc 60
 ttgaaagaat caatgacaat gcttaciaaag ttgagctgcc cggcgagtat aatgttagtt 120
 ccaccttcaa tgtctttgat ttacctctct ctgatggcag atgtagaatc cgatgtgaag 180
 acaaatcctt ttcaagatgg agagattgat gagga 215

<210> 17550
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17550

ttctataatc aacgcacatt ctccatcctg tgtctgttct ggtatgaatn agaccatttc 60
 gaacatttct tattactgcc attcctcctt tctttggaac aacttgaaca agactgaccc 120
 atgagttgtc tgagattgga tagataaagc ctgcctctaa taacttgagc acttcttttc 180

ttacttcttc cttcattata ggattcaatc ttctctaggt tgtcgcacag gcttataatc 240
 gggcttcaaa ttgattttgt gcatacaata tgatggactg attcctttta gattagaaat 300
 gtgccaacca ataaccgact tacgtcattt agaatctgca ctaattgatc ttcttctctc 360
 ttcttcaaag agttgctatt tataaca 387

<210> 17551
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 17551

agcttcatgc atggatgctg agacagactc ttcatacagaa ctttgtattg gaccatctag 60
 tataatcttt atcaacaact caaacatttg gacaaactct tgtgcaaatt tggctagagt 120
 attctcacat tctcccatc cactgaaaac ggcactctgga tgaccaata tcatataacc 180
 acaaagaaça actctcacag gataccttga taacctaact aagctattgt ttgactccct 240
 gactgaatct actttctttg cctgtcggct tctcataaaa ctcttggaag tagccttttt 300
 cttggggtaa gcaaccatt taagaagatt atcaatgtta tccaagctag acaaattgtt 360
 ggcaggagcc actgtttag acact 385

<210> 17552
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17552

ggacctataa atctcagctt gagttgtgaa aacttgattg gatcttccat ttntttgtgt 60
 agagttgcng ggaaacagaa ttcacaaaaa aaaaagaaag aaaaaagcat agagagaaag 120
 atcaacatgg tgttgaggaa agtgggtaaa tatgagattg gaaggaccgt tggagaggga 180
 acgtttgcga aggtaaagtt cgctcataac acatacagtg gcgagagtgt tgtcatgata 240
 gtgctatacc gtagcgccat catcatacac aatatggctg accaggtatt tgttttttta 300
 agtactacat cacgtgaatt cctgaaatta caagattcag ttca 344

<210> 17553

<211> 375
 <212> DNA
 <213> Glycine max

<400> 17553

agcttgggta tctccttctt cactacatca agaatactg ggttgagtct tctctgtggc 60
 tgtcttactg gtttagctcc atcctctaaa tttattcgat gcatacatgt ggatgggcta 120
 ataccaggaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaactgac 180
 aacaacttct cgtcttgctc atcagcaagg gaggcagata taatcactgg aaaactcttg 240
 caatcatcca agtaagcgta ttttaaattt gatggcagag gcttcaattc tgggtgtggc 300
 ggctggacag tggtagaagg agatggttct tcagccttta cctcataaag aaagtcagag 360
 gtatgtgtac ttcct 375

<210> 17554
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 17554

agcttttact aaagtattct ctagttaga gtcctgcac agtacaaccc ttattccaac 60
 accaaaagca tcacattcaa tttttcaaaa gctttatcaa aatttgacaa acaaagcaaa 120
 tgtgcattgg tcaacttgct tttcaatata ttaaaagttg tctcatgcac atcagtcac 180
 ttgaacacca cattcttttt tacaagttcg tttaaagggtg cagcaagtga actaaagctt 240
 ttcataaatc ttctataaaa acttgctaaa ccatgaaaag atcttacctc attagcattc 300
 ttaggtacag gccattcctt aatttccttt accttttctt catcaacact tattcctttt 360
 gagctaataa aataacctaa gaacacaact gat 393

<210> 17555
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 17555

tttataataa acaagccgag ccgaaccgag tcttacgtaa gtcgaattga agaccctcga 60
 caagctgttc ggctcatttc caccctacc tgcaataaca tagaagtggg taacccca 120

atcttactta ttccaattat cactgctctt ttcccccttga ttttcacacc gggcctaagt 180
 aacaactcaa tgcagccctt gggagcacaa ggaacaaaga agggctttct tcctcttatg 240
 caatttcaat tcttttagcaa taacttaatt ttgtagattt tttaaaaata aattcaatat 300
 ttagtataat tattactttt tcacatgtct ttttaagtact aattcatttc a 351

<210> 17556
 <211> 346
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17556

tatgcatgca gcttttgggt atgactccgg agaactggat gttaaacaag gagacattct 60
 taagatgttt aagctctgtc atctcaagtg gtagctcgcc cgagagggtta ttaatgtaca 120
 tatggatctg ctcaaggctt tgaattntcc atatgccaa tggaatttct cctgtcaaatt 180
 ggttttcaca caatctaaga tcacgcaatt tactcaagtt tcctaattcg cttggaattc 240
 ctccctcaag ttgattgtaa ttcaaaactcc actctttcag tgattcgcaa ttaccaatct 300
 gtggatgtat tttccctgac aatagggttct ccggaatgaa taacat 346

<210> 17557
 <211> 350
 <212> DNA
 <213> Glycine max
 <400> 17557

agctttgaga caattcattc gacaataact ttgtactcgg atgtctgatt gagtcccgta 60
 acatatcgag acgctcgaaa ttgaatgttg aagctctcag ccaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagcctcgt aatagaacga gacgctcgaa attgaatgtt 180
 gaagctctga gccaaattcaa acgacaacaa ctttttactg ggatgtctga ttgcgtcccg 240
 taacatatcg agacgctcga aattgaatgt agaagctctg agacaattca aacgacaata 300
 aatttttact cggatgtctg attgagtctc gtaatataac gagacgctcg 350

<210> 17558
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17558

ataatttnag cgtctcgtat attacggttt ctatcagaca tccaagtaaa aagtgagtat 60
 cgtttgaaat ggctcagagc ttccacattc aatttcgaac gactcgatat atgaagggac 120
 tcaatcagac atccgaataa aaagggtattg tcccttgaaa tggctcagag attccacatt 180
 caatttcgag cggctcaata tattacggga ctcaatcaga catccgagaa aaaaattatt 240
 tccgtttgca tttgctcaaa ggttcaacaa tcaatttcga gcgtcttgat atattaccgg 300
 actctatcag acttccgagt aaaa 324

<210> 17559
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 17559
 agctatgctt acaaactctt catccccctc aacaaaagac tctttcaaat cgcttctacc 60
 attataacaa caattccaaa gaattattgtt catattctat ttatttaata aaaattaggg 120
 acattgatgt ttagtcatgc atactcttag agtgatctct attatatatt tgtagcaaga 180
 attatgatca tacttttaggt gaaaaaaaaatg gcatacatat aatgtttgac tttctaaagt 240
 cacaaagtat ggaatataaa taacataacc acaatcagat atatatactt aacacgttta 300
 gtataaaaaa tttcaaacaa gtacaataaa aacctcaact aacccaaaca atagaacata 360
 agtgtcagta atgaagcgat cacccaagat aaac 394

<210> 17560
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17560

tgcaaactaa gtgctcacct ttagtagagg agaatttctt atgctggttc atggtaacct 60
 tttcctctag atgaccatta aggaatgtcg ttttcacatc catttgatgt aactcaaagg 120
 tcaaatgagc tactaatgcc ataattattc agaaagaatc tttcttaaat acaggaaaaa 180
 aaggctctgt gtatcaattc cttctctttg agtgaaccct ttggccacaa gtcttgccctt 240

atgtctctca atgttgcctt gtgagtcttt cttgggttta aaaacccatc tacatccaat 300
ggctttttaca ccactaggca actgtacgag atcccagact tggttaaacg ccataaaatc 360
atctcatnct tcatgggata tgtcaacaag ttgattcttt agaactcatg ggctgtgaa 420
acgttcagga tcatttgcag ctcta 445

<210> 17561
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17561

agctttacat gatngatttt ggtgttagat ttggtcaatt tgaaggcaag atatgggagg 60
, agtgataaaa ttttactga attgcttgtg ttgttgaaaga agatgatccc taaagataac 120
aagttgttga atattcacta tgagggtgaag aaaatactat gtcctattag tatggagtac 180
cagaaaatac atgcatgcct taatgattgg ataccaaaaa atgagtttgc agaaatgcat 240
aagtgcccta catgtgggggt atcgtgatac aaagtgaatg atgatgacta cagtaatgat 300
gtaagcacac acaataacca tccaacanag gtgtgttgct atcttccaat aattccaatg 360
cttaagtgat tctttgctaa tggagacaac a 391

<210> 17562
<211> 167
<212> DNA
<213> Glycine max
<400> 17562

gatattatgt cctgtgggta tggagtacca caaaatacat gcttgcccta atgattgcat 60
ttcgtatggg aaatagttgg ctgaaatgca caaatgcccc atatgctggg tatcacggga 120
cacaatgaaa gatgatgaat gtaatgatga tgcaaccaca tgctgta 167

<210> 17563
<211> 388
<212> DNA
<213> Glycine max
<400> 17563

agctttgatg caacattttg aaagggttaat gaaacaatga gatgatgcgc tccatgagag 60
gttgatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
tggtgttcct agacaaaatc aaattgatgg tattaactc aacattcctc cctttaaagg 180
aaagaatgat cgggaggcct acttgagtg ggagatgaaa atagagcatg ttttctcatg 240
caacaactat gaggaggacc aaaagggtgaa gcttgccgcc atggagtttt ccgactatgc 300
tcttgtgtgg tggaacaagc tacaaaagga gagagcatga aatgaagagc caatggttga 360
tacatgggcg gagatgaaaa ggatcatg 388

<210> 17564
<211> 394
<212> DNA
<213> Glycine max

<400> 17564
agcttgtagg gttaaagttt catgattgcc acgtgttgat gcaacaattg ttagccgtgg 60
ctatacgaga catcttgcca aagaaagtca ggtagccat aactcgcttg tgctttttct 120
tctatgccat atgtagcaaa gtcgttgacc ctgttaagtt tgatgagctg aaaaatgagg 180
ccgcaattat actatgccag ttggagatgt atttttcccc tgatttcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tagtcctatt tatttgtgg 300
ggatgcaccc ggttgagcga tacatgaaga tcttaaaacg gtatacaaag aatatatc 360
gcccagaagc atctattgtt gagaggtaca atgc 394

<210> 17565
<211> 327
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17565

tataaaactc aactatgctg ctatatttac atagacctcc tcaacctttg ctttataatc 60
aaccacagca gaacaaatat gacctctcca tccacagata caacctgga tggaggaatc 120
accctaacct cagatggtcc agccctcagc aacaacaaca gcagtctgct ccttccttcc 180
aaaatgttgc tggcccaagc agaccatata ttctncacc aatccaacaa cagctacaac 240
cccacaaaca gccaacagtt gaggccctc cacaacctta cctcgaaaac ttgtgagaca 300

aatgactatg cagaacatgc aatttca

327

<210> 17566

<211> 372

<212> DNA

<213> Glycine max

<400> 17566

agcttatagt tattggaggg agaataaaac aatccaaaat caattgtacc tttcaagtaa 60

cgaagaattc tttttgcgac ttttagacga ggagaggttag aaacaattat gaggaagagg 120

tagaaacaat tatgaaaaag catatgaaag gaagtatgat aaatctaata ttgaatgttt 180

taattgtcat aaatatggcc attactcttg ggagtgtaga acaaagtgtg aagagaagggt 240

caatcttggt gatgataaag aagaagttga agagtcaaca ctactactat cacttaataa 300

tgggtgagaag gaagacaaat gcttatggta tcttgacaat ggagcaagca atcacatgtg 360

tggatgcaaa ga 372

<210> 17567

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17567

aaccttctat gaatcttcgg taatatcctg ctaagtccaa aaaactccta atctcaaaaa 60

tagacttaag actctccac ttcagaacaa cttctatctt aaaagggctt acaactatac 120

ccccttgaga tatcatatgc cctatgaaac taactttctc taacccaaat tcacacttgg 180

acaacttaac ataaagctgt tggttcctaa gggatatgagg cacaatcctt aagtgtcttt 240

cgtgctcttc atgttcttca tgttctctc taacctgacc tanagtctat cttgctaaac 300

acacaagctc ctaccagctg gtccagaagg tcatctattc tangcanagg gtacttattc 360

tttattcgtc accttattca actga 385

<210> 17568

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 17568

agcttggcta ttgcatatct tgccaccaag ccacctaaag agtgacctac aaatgaaatt 60
ttctgaacac ttgggtgacg ttttataact gatataacct gngaaaaaag aagaagaaaa 120
caagtatcct ttatTTTTCT ggatttgatg ctacagagtt gaagtcaatt gaacatctta 180
agagccaaaa gattagtatc taacaaaggc taaaattaaa gtatgactaa gttttagact 240
taggattagt ctcataatca cttcaaagat cctaattaca gtggttacaa aaaagaacaa 300
gttaaaagtc aaagccataa cacacctcct ctgctagtct atctcccatt acatcaacac 360
catcaaatgt caacatgg 378

<210> 17569
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17569

agcttgcagt acaacatttc aattgttgac aagtaactta aaaaagagaa atatgacaac 60
ccttttttcta cttaaaaaga aatgacatgc atcagcaatg aaacaacgta gcaaacttac 120
atggtaccag gccaatgtac aacagatatg ttgaagtttc tctgttcctc ctgataaaac 180
actgtattgg agaatcacga ggaccangct attcatgcac aaaagagaaa cataacataa 240
gaaacagaat accctaaagg gaaaaaaaga taaaagatta ggcaacacaa gaggtgaaga 300
atztatcacc tgcttcaatg aaatgggaaa tgtgagcctt ncacattgtt caggagtctt 360
aacaatctct ttcgtaac 378

<210> 17570
<211> 424
<212> DNA
<213> Glycine max

<400> 17570

ctataaaact cagcttgagg tacacctgga tctctgtttg ttctattgtg ctgattatat 60
accgcgtttg gacaacgaac aggctttgaa aatagtgcgt agcacacaac actatgaaca 120
cagggaaagg cattgtcctg aggacctcc tacttgctt gtgccaatcc ctaaaggtta 180

caaaacaccc atcgagtggc ctagcagcag agataaggac attctttatt ttaatttatc 240
ggcaaagtgt aattgttatg gggaaaaatt aaacttacca tctttccctt ggttcttctt 300
ttgcactaag ccaccttata gttataactc acatgtacac acacttagtc ggccttttat 360
atatttcagg ctaataatct gctggcgggt taaaaaacat atggaccaca cgtacacaca 420
actg 424

<210> 17571
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17571

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tttgcttttt agacatgact cttgcttcaa taacatgggt tgctagtctt gtaaccacca 120
acctagtacc attgcataac ccttggtgatt gatacatggt ccttaaaagc attattgggg 180
taccacactt tagtntatc ttatgattag gaagaccaa tggtctcaaa ctattgagaa 240
attcacttgt gaccacttca agtgcatttc attcaaccat ttttgacttg tcaattgaat 300
aagaacttag atattccctt tgatcacctg aaaacaattc attaataaaa acattgtaga 360
atcaatatta attattaaat caattgatta tttgtgagat acctggatta aagaaaaaca 420
taatcttatt tga 433

<210> 17572
<211> 419
<212> DNA
<213> Glycine max
<400> 17572

ctcagctaac aatccttgtg atctattatg gaatatttct atccctatca catagcttac 60
ctcatccata tctttcactt caaagtttct agagagaaat ttcttagtct catgaagaag 120
accaagatcg ttagttgcaa gcaagatatc atccatatac agaattagaa aataacctta 180
ctcccactga ccttcagata catataccga taaatagtat tttccttaaa tctaaaggaa 240
acaatgggtat cattaaacct caaataccat tggcgggaag tttgctttaa gactgtatat 300
ggatttcttt agtttgcaca ccatgtgttc ctttcctttc actgagaacc ccattgggtg 360

gtccatataa acattatctt cctaattctt atttagaaag gcagttttca catccatct 419

<210> 17573

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17573

taatgaaggc gttatcagat atgtactaga agccgttgat agccaacaaa gtataacttga 60

tgcgtcgggt gttcaacctt aagatgggag aaggtatctc tataactaat catattaatg 120

aatttaatac tattcttgcc cagttgaagt cgggtgcagat caaatttgag gatgaggtga 180

aggcattgat tctattgtca tcactatcgg atagttgggt tgcaactgtt actgcagtta 240

gtagttctac aagagagaac acattanagc ttagtgacat tcgtgacttg atcttaagtg 300

aagatgttcg caagagagat ttangagaat cttctagtca tgtttccaat ttagcattga 360

atactga 367

<210> 17574

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17574

tgaaagtgtg taaccaacca ttntctcatt gtataactac cggaacgtgt atactatcat 60

tgtgatcatc tttttctctg tcattgaagg tgccacttga gctgtcaagt cctccacct 120

ctgggcgtat tccttgaatg actcatgctc ttttttacac atgttttgta gttgcgttct 180

atccggagcc gtatcataat tgtactgata ttgcctaacg aaggcaacca ttangtcctt 240

ccaagaatag actcggaag gttccaagtt agtgtcatc cctaatttcg tccggggatt 300

attacttgac gacatgcaac ctttgattgg tccgttcaag ataactggca ccttttgttg 360

cacaatatgt aagtcttgag acgcaccgga agtcaaagga agcanggtta tgcgatccgt 420

gaaattccgt aatgtggcgg aaacaaaaag 450

<210> 17575

<211> 363

<212> DNA
<213> Glycine max

<400> 17575

agcttccggtt ttcaatttgg agcatctctc gataaattac aacactctgt cgggcatccg 60
agtaaaaagt tattgtcgtt tgaatcttct aagagtttcc attttcaatt ttgagcgtct 120
cgatatatta cgcgactcaa ccggacatcc gtgtataaag ttattgtcat ttcaatttgc 180
tcagagcttc tagtctcaat tttgagcgtc tcgatatatt acccgattca atcggacatc 240
cgagtaaaaa gttattgttg tttgaatttg ctacgagctt cccttttcta cttggagcgt 300
ctcgatatat tacgttactc aatcggacaa ccgtgtataa atttattgac gtttgaatat 360
gct 363

<210> 17576
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17576

tgtagcanat tcaaacgaaa ataactntnt actcggctgt ccgattgagt tcggtaatat 60
atcgagacac ttgaaattga aaacgaaaac tcgtagcaag tgectaccgc aatcactttt 120
aaatcgtcgc gaaataaatt gacatgctcc aatttgaaaa agaaagttca tagcaaattc 180
aaacgacaat aactttttac acggatgtcc gattgagtcc cgtaatatat cgggatgctc 240
caaattgaaa acggaagccc ctagcanatt caaacgacaa taacttttta ctcagatgtc 300
cgacagaggt tcgtaatata ttgagacact gcannatgaa aacagaagct cgaatcanat 360
tcaaacgaca atatcntttt tactcga 387

<210> 17577
<211> 376
<212> DNA
<213> Glycine max

<400> 17577

agctttgatg caacatttgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60
gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120

tgggtgttcct agacaaaacc gaattgatgg tattaaaactc aacattcctc catttaaagg 180
 aaagaatgat ccggaggcct acgttgagtg ggagatgaaa atagagcatg ttttctcatg 240
 caacaactat gaggaggacc agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300
 tcttgtgtgg tggaacaagc tacaaaaggā gagagcaaga aatgaagagc caatgggttga 360
 tacatggacg gagatg 371

<210> 17578
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17578

agctttgagc caattcaaac gacaataact ttttactcgg atatctgatt gagtcccgta 60
 atataacgag acgctcgaaa ttgaatgttg aagctccgag ccaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagtcccgat aatatatoga gacgctcgaa attgaatgtt 180
 gaatctctga ccaaattcaa acgacaatag ctttttactg ggatgtctga ttgagtccca 240
 taacatatcg agacgctcga aattgaatgt tgaacctctg agccaattca aacgacaata 300
 acgttttact cggatgtctg attgagtccc gtaatatatc gagacgctcg anattgatgt 360
 tgacctctga g 371

<210> 17579
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17579

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 aagttattgt cggttgaatt tgctcaaagg ttcaacattc aatttcgagt gtctcgatat 120
 attacgggac tcaatccgat atccgagtaa aacgttattg tcgtttgaat ttgctcaaag 180
 gttcaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240
 aaaagttatt gtcgtttgaa ttgggtcaaa ggttcaacat tcaatttcga gcgtctcgat 300
 atgttacgag actcaatcag acatccgagt aaaaagctat tgtcttttga aattgctcag 360

agattcaaca ntcaatttcg aggggtctcga ta

392

<210> 17580

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17580

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ttttatcgag gcaatagatc taaatatctg ggaagccatt gaaatagggc cttatatacc 120

caccacagta gaaagagttt caatagatgg tagttcatca agtgaaagca taaccataga 180

aaaacctaga gatagatggc ctgaagagga tagaanacga gtacaataca acctataagc 240

caaaaacata ataacatctg ccctaggaat ggatgaatat ttcagagttt caaattgcaa 300

gagtgctaag gaaatgtggg acactcttcg attaacacat gaacgaacta cagatgttaa 360

aagatctacg ataaatgca 379

<210> 17581

<211> 335

<212> DNA

<213> Glycine max

<400> 17581

tcaagctgtt tctcggatgc tgcgatggtt agtgggagtg atgctcttgc gaacattaca 60

tcgaaagttt atctgtctcc caagctttgg tatttgaggg ttaatgtgat agaggcacac 120

gacctgatgc caactgataa ggtagatag cctgaggtat ctgtgaaggc taccctgggg 180

aatcaggcct tgaggactag aatctctcaa agcacgagta ttaatccaat gtggaatgag 240

gatctgatgt ttgtggtggc cgaacagtct gaggagccgc tgattttgag tgtggaggat 300

agaagtgcgc ctaacaacga tgaaatgttg gggag 335

<210> 17582

<211> 317

<212> DNA

<213> Glycine max

<400> 17582

tttcatgtat gctttgcaga ccaagccctc cttgacgaag ctacggactt ttttgagatc 60

ctattgatcc ccctatgtga aacattactc gatccattcg tttgggggatg aaaggggtgat 120
gctacttttc ctgcacatg atagcgctgg acgacatttg agagatgatc gtacacaaat 180
gtgtacctgc atcgactaat ccagagtcta ggctctccac acctagacga tatgtctctc 240
tgtaagagct taatcaccat cgttgcataga caggcgggct accaggtgct tccaccact 300
atgagacata gtccact 317

<210> 17583
<211> 353
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17583

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ctcttaatat ttggtattag atagttcagc catctcaatc tacgactctt ggggcactctg 120
ttcaacccta tacgtatacc agacgcatat taatgtttat tatttattac aacttatgag 180
gatatatgtc atagctatta tatatatata tatatatata tatatatcat tgcgagtcac 240
aagcatattc cagataacga aaagagaaca tatacaaata taaacacatg catatattaa 300
tattatgggt cttgctaate ataatatcta ttgtataaat gatngaaaag tat 353

<210> 17584
<211> 392
<212> DNA
<213> Glycine max
<400> 17584

agctttctgtg cctgatgctg agaaagatgt tccaacatct tccaccccgga atgtttctgt 60
gectgatgtt gagaaagatg ttccaacatc ttccggccca aatgctgaag ccctcccttc 120
accagtgaa gaggaatcaa cagaagaaga ggatcaagcc tcaaaggaga ctctgcacc 180
acgggcacca gaacctgctc caggtgacct cattgacctg gaagaagtag aatctgatga 240
agaaccatt gccaacaggt tggcacctgg cattgcggaag agacttcaa acagataggg 300
aaaaaccct cttaagaggt ctggaagaat caagactatg gcacagaaga agagtactcc 360
aatcactcct gccacagcca gaagaagcaa gg 392

<210> 17585
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17585

caccggatag ntcattcttt ataagtgctt aagtggaatt agagtatcgt atgtataatg 60
 ttngaataat actctgtgat tataacttcca aatattcaga actctgcttg gttatgatta 120
 tcaggcaagc aaaggatggt gttaaaggca taaagaagcg gattggaagt aaaaattcaa 180
 aagtccaact tcttgacta actgtaagca aaatagtctt gcgatacaac cttttttctc 240
 tttaaactct gatgtcagta ttgctctaga ttcttttgga ctcaagcatg tttgctgtaa 300
 ttgcattttt caaatttcat tttggcctcc caaacttcac attgttgact cgttcatttt 360
 tgaatgggtt tggtgaatga cgacgatgtt ta 392

<210> 17586
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 17586

aatgtttttc cattgattgg gaaagctgtt ccgaaattc ctgaaaaatg taaagatcca 60
 ggtacattca gcataccttg tattataggg aatagtaagt tcgagaatgc catgctagat 120
 ttacgagctt ctgttagtgt tatgcctctg tctattggta attctctatc tctaggtccc 180
 ttgcagtcaa ctgatgtgat aattcattta gctaatagaa gtgctgcta tctgttggt 240
 ttcatagaag atgtcttagc tagagttggt gaactgatct tccctcgtga tatttatatt 300
 gtgaatatgg aagatggatt ttctcaagga tcagatccca tgattctagg cagacccttt 360
 at 362

<210> 17587
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17587

tcaagctttt tattgtttct tggatggcta tttgaagtat aattagatag cagtggacct 60

taacgaccaa gaaaaaattg cttttacatg cccttttggg gtctttgctt acagaacgat 120
gtcatttcct tgccaccttt tagagatgca tgctagctat ttttgttgat atggtagaaa 180
aatgcattga gtgttcgtat ataatttttc agtcttcgat ccttccttca actgttgctt 240
aaccaatttg gaattgggtg tatgacgatg tgtagagact aatctagtgc taaactggga 300
gaaatgtcat tttatggttc aagaaggcga tattttggga aataagatat ctcttagagg 360
gactgtagta gacttggc 378

<210> 17588
<211> 368
<212> DNA
<213> Glycine max

<400> 17588
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aatctgcacc tgctgtcaga ctctgtgggt tatgtctctc tgccgaccac cacacagacc 120
tttgcccttt tgtgcaacaa tctgaaccaa ttgaacagcc tgaagcttat gctgcaaaca 180
tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240
tctccagcaa caggtacaat cccaagtgga ggaatcatcc caaccttaga tgggtgaatc 300
cttcacaaca acagcaacaa caacaacaac cttatttttag aatgttgctg gcccgagaga 360
catacggt 368

<210> 17589
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17589

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agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaagaa 120
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggaag taactatggc tcgatttctt aatgggttga ctaatgatat 300

ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360
ccaagtggag caacaattaa aaaggaaggg agtggctaag aggagtttta ccaactt 417

<210> 17590
<211> 377
<212> DNA
<213> Glycine max

<400> 17590

agctttcttc ttcaaaagct ctgcaatttc agaattcaat ttttgatcca cttgcaacag 60
cctgtctaata gcaagaaaag cagctgtgac ccattttgga acctgttctt tctccctgtt 120
accaagacta gaatcccatt ggtagagtag atctgaggca atttttatga aaccactctt 180
tgaagcagct tctcgcgcaa cagcatcctc attaagaatc aatgcaagaa catgaaatag 240
agcagcaagc atgggtattat ttccgttacc agaaatcaat ccacattcct tgatecggtc 300
aacaataaaa gtgagaacat tagatctatt ttgaccatca ttctgagagc atatcatcat 360
gagcaagtca cggacag 377

<210> 17591
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17591

gcagggaatt ggtgatttga aagcacctgg tattgttggg tatgggttcaa aatttttcaa 60
aaatagctgg catatagtaa agaaagattt tattgctgca gtgaatgaat ttttcgagaa 120
aggatcttta ttaaaggatt ttaatactac tcttgtgact ctcattccta aatctattac 180
tgctaagact gtcaaggatt acaggcctat tgcagtttgc tctacttttt ataaagtgat 240
ctaaaatttt ttgactagga ggctagggat agtgatacag gatattgttc atactagcca 300
agcaactttt gtaccgggtc aagtcattca caatcatatt ctccttgcaa ctgagttgat 360
gaaggggtat accagaaagg gtgggacccc tacgtgtatg atgcanatag acctccaaaa 420
agcttatga 429

<210> 17592
<211> 381

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17592

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cagtcattggg aacaaaccgtc gctaccacac atgcggcgga ggtgcttgct agtgcggagg 120
gcctgtgcca tgccttgccg cattgactga atgttatggc cgggtatggc ggtgtacgcc 180
actgtgtctt ggttcccctg tgactttcca tgccgcatta atattcttct ctttgaagc 240
acaccaacca tatcttctct tctctttaca ttcattttct ttcaccctca caattcta 300
cttttttatc cacacataaa attntgacaa taaaagaata tttatacact ttcctttgcg 360
catgatgggt gattcctata t 381

<210> 17593
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17593

atacaatact taagcttgtg tcgcactgtc tactgctgaa gctaaatata tagctgcagg 60
aagttgttgt gctcaaagtc tctggatgaa gcaacaactt gaagactttg gagtaaacct 120
tgatcacatt cctctaaaat gtgacaacac aagtgcgac aacctaataaa aaaaccttgt 180
catgcattct aggactaaac acatagagat aaggcattat tttcttagaa atcatgtgtt 240
aaaagggtgat tgttgtattg agttcattga tagtgagcat caactagcag atattttcac 300
taaacctctt gctagagata ggttcttttt cattagaaat gaactaggca tattagatgc 360
atctagcata gaatgatatt ttgtttgcac agtgtgtgtg attgacattg ctactcatat 420
aatttctttt tgtttagttt gtgtcacaag 450

<210> 17594
<211> 386
<212> DNA
<213> Glycine max

<400> 17594

agctaagtct taactatgta tgacaaaact gcattactgt tgttcaagac atacaagtga 60

gcttgaaca aatcttctac acttggagtg atcacctgca gtcctcttga acccttacca 120
cccactttgt cataatgccg agactcatga agcccaacag gtttagcctt ctctaagtat 180
tctgaacaaa attcaatggc ttcttctgca atgtacctct caacaataga tgcttctaga 240
cgatatagat tctttgtata cctttttaag atcttcatgt atcgctcaac tgggtacatc 300
caccgttgat aaacaggacc acaacatttg atttctctga ccagatgcac aatcaagtga 360
atcatgatgt caacgaaagc agggggg 386

<210> 17595
<211> 399
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17595

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acaacttcct tcttgaacaa aagttgagag aggaaatggt gataaaactc ttttcattaa 120
aaagtcctct cataacattt tacttgtgca agtttatatg gatgacatca tttttggttc 180
cactaacaaa tctctttgtg aagattttgt gcacaagatg tagggggagt ttgaaatggt 240
aatgatgtgg gagttaaatt actttcttgg tctccaagtg aagctagtgg accatggaac 300
atttctctat gaagtaaaat actacaagga acttttcana cagtttgaga tggacnatag 360
caaggaggct acaactcata tagctactaa ttgctacct 399

<210> 17596
<211> 379
<212> DNA
<213> Glycine max
<400> 17596

agcttctaga ttttcgatat gaaaacatgt agtttcatgt tctcttcaat taacgcataa 60
tacattttac tactttctag tgttgcatac caagattact caaatatcac cttaggactc 120
ccacaaaaat ttagtttagg acaataaaaa aataaactta agcatacatg ataaattgta 180
atataactat ttgcaacaa taagtcgtat gatgatagta ggatgtcatc gacatataat 240
acaaaaataa taaatttact ctcatgaac ttttagtaca cacaatcatc aaccaaattt 300

atctcaacac cataagagat aatctagatg aatttttaat accatagacg agagacttgt 360
 ttaaagcata aatgaattt 379

<210> 17597
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17597

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 agatgctgaa taaaggctca gatacgcttg atgaggtgct acagcttgga aagaatgttg 120
 gaaaccagag aggacttgga tttaatccta agtctgctgg cagaacaacc atgacagaat 180
 ttgttcctgc caaaaacagc actggagcca cgatgtcaca acatcggctc cgacatcatg 240
 gaacgcagca gaaaaggagc aaaagaaaga agtggaggtg tcactactgt ggcaagtatg 300
 gtcacataaa gcccttttgc tatcatttac atggccatcc acatcatgga actcanagta 360
 gcagcagtgg aaggaagatg atgtgggt 388

<210> 17598
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17598

ctatacaata ctctagctnt actatgcana gaataaccaa ggaaaattcc ttcatttgac 60
 ttagctttta attttcctaa gttttctttt tcattgttta atacaaaaca cttgcaacca 120
 aaaacatgaa gatgcgagat gtttggtttc ctaccattga acacttcata tgaagttttc 180
 tttaagatgg gtcttattaa agccctattc atgatataac atgcagtatt aacggcttca 240
 gcccgaaaat attttggaag aggagtatca ttcaataagg ttctagcaat ttcttccaaa 300
 gacctatttg tcctttcaat aactccattt tgttgagggg ttcttggtgc ataaaagata 360
 tgttcaatgc catgcttatc acaaaataaa tcaaattctt tattttcaaa ctcaccccca 420
 tgatcactcc taatagatat aat 443

<210> 17599

<211> 385
 <212> DNA
 <213> Glycine max

<400> 17599

agcttttaaat tgtagttaag actgcagaca acttctgttc atgtttgaag tttgatagaa 60
 acacagatgt tagctatagt aatatgagga aggcgtgttc atgagaagat ttgactgaca 120
 actattttatt ctatccaaaa gctgtagatc ttcagtacaa ggatttaagg cattttcagt 180
 ggcattggga aaagggggag cctgtaattg tcagcaatgt gcttgaatgt acatctgggt 240
 taagctggga atcgcttgac atgtggcgtg cattacgtca tgtaactaat accaagcatg 300
 gccaacattt ggcgagaaaa acaattgatt gcttagattg gactgaggct tgcttaattt 360
 cccaatcttt aactctattg accat 385

<210> 17600
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17600

tttctacttt gcagggcagg acactatgnt cagnanngtc gtgctcggac aaagatatta 60
 ttgagtaggt accctgattg gcaagcacgc gcaagggagg aagtctcaca agttgttggc 120
 aacccaaaaac cgacttttga tggactgaat caattaaaga atgtaagttt gtattataaa 180
 cttgttattg aatagcatgt tcatgggtatt tactatgaat atttttgcaa caggttacta 240
 tgatttttga tgaggttctt agattataacc ctccaggagt tgggtgttctt cgaaaagtta 300
 tcaaagatgt gaaacttga aacctatcat ttctgatgg agtggagatt ttcatatcaa 360
 caattctggg tcaccatgat agtgagctct ggggtgatga tgctaaggag ttcaaacctg 420

<210> 17601
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 17601

gctgaacatt gactgaatct agttcttttag tttttagtca aaatatctgc tggttgatca 60
 ttggaactaa tgaactcaat gacaatctcc ttggacaata gtttctcccg aatgaaatga 120

caatcaatct ctatgtgttt agttctctca tgaaaaacaa gatttgaagc aatgtgaaga 180
gcagcctgat tatcacaata taacttcatt tgtccaattt cacaaaatct caactcttgg 240
agaagttgct taaccacat aagctcacat gtaaccatag ccatagatcg atattcagct 300
tctgcactgg atcgagcaac aaccgtttgc ttcttgcttt ttcaagaaat aatattccct 360
ctaatagaaga cataataatt tgatgtggct ctctatcca tgggacagtc agt 413

<210> 17602
<211> 375
<212> DNA
<213> Glycine max

<400> 17602

agcttcaaca ttcaattttg agcgtctcga tatatgacga gactcaatca gacatccgag 60
taaaaagtta ttttcgtttt aattggctca gaggttcaac attcaatttc gagcgtctcg 120
ctatattacg ggactcaatc taacatccga gtaaaaagtt attgtcgttt gaattggctc 180
agggcttcaa cattcaattt tgagcgtctc gatatatgac gagactcaat cagacatccg 240
cgtaaaaagt tattgtcgtt tgaattggct cagagggttaa acattcaatt tcgagcgtct 300
cgatatgtta cgggactcaa tcagacgtcc gagtaaaaag ctattgtcgt ttgaatttgc 360
tcagagattc aacat 375

<210> 17603
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17603

ttgagccaat tcaaacgaca ataacttttt actcggttat ctgattgagt cccgtaatat 60
aacgagaccc tcgaaattga atgttgaagc tcttagcaaa ttcaaacgtc aataagtatt 120
tactcggatg tctgattgtg tcccgtcata tatcgagaca ctcgaaattg aatgttgaag 180
ctctgagcca attcaaacga caataaattt ttaccagat gtctgattga gtcccgtaat 240
atatcgagac tctcgaaatt gaatgttgaa cctctgagcc aattcaaacg acaataactn 300
tttactcgga tgtctgattg agtcccataa catatcgaga cgtcggaaat tgaatgttga 360

atctctgagc caattctaac gacaataact ttttactc

398

<210> 17604

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17604

agcttttcgt tcggcatanc tatatcagcc aaatctattt caggtgtatt gtttggagca 60

cagaagctat attagacatt tgcgtacaag agctgacaag caagatgtca cagtagatat 120

atgtccactt tgggccagag gagttcgctt agttcctgat caagatccaa acataacttg 180

ggagaatcat gtcaacaccg agtgcgaccc atcgaattac gagaaaagtca cacagaagaa 240

aaaatgccct gtccctgaat gcagagagat attagtattc tcagacacaa ttaagtgcaa 300

ggactgcaca gtagagcatt gtttaaagca tcggtttgga cctgatcata aatgtcctgg 360

tcccatacat gtggaatcaa gtttt 385

<210> 17605

<211> 415

<212> DNA

<213> Glycine max

<400> 17605

ttcttggttt cagctgctga agatgaattc gtggctattt catgcactcc tctaagtact 60

atagcatcat ttctggcact aaactggttg gagttggaag ccatcttctc aattaaattt 120

ttggcttcag caggggtcat gtctccaagg gctccaccac tggcagcatc tatcatactt 180

ttgtccatgt tactgagtcc ttcataaaaa tattatagaa gaagctgctc cgaaatctga 240

tggtgagggc aactggcaca tagtttttta aatctctcct agtattcata taggctctct 300

ccactgagtt gtctaatacc tgaaatatcc tttttgatgg ttgtggctct ggaagcacgg 360

aaatgttttt tctaagagtc ctctcttgag gtcacccctaa ctctgtgatgg acctt 415

<210> 17606

<211> 389

<212> DNA

<213> Glycine max

<400> 17606

agttatacaa atcacattta gccccttttc aatttaagac ttctcaattt tgggcactaa 60
gattgttcaa tgaggataat atcgattgcg tttcattctt gtgtgcagtt ggtgacttga 120
accatctgat ctgagctaca atgtctggtg tcacttggtg attgaagttc cctgttcaac 180
ttaactctga tctgcgatag cttgcagtgga accttattcc ctccctcgc ctccacttct 240
tcatggatgg atatgctcct ttgacatctc gtggctctca gcaatacatg gccttgagtg 300
ttcctgagct gacacagcag atgtgggatt caaagaacat gatgtgtgct gctgaccctc 360
aacatggccg ctaccttact gcctcatcc 389

<210> 17607
<211> 328
<212> DNA
<213> Glycine max
<400> 17607

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taaaaactta ttgtcgtatg aattggctta aagcttaaac attcaacttt gagcgtctcg 120
atatattaca ggactcaatc ctacatccga gtaaaaagtt attgccgctt gaattggctc 180
agaggttcaa aattcaattg cgagcgtctc gatatatttc gggactcaat catacatccg 240
agtaaaaagt tattgccgctt tgaattggct cataggttca acattcaatt tcgagcgtct 300
cgatatatgt ggggtctcga tccgacat 328

<210> 17608
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17608

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ctcgaaattg aatgttgaag ctctaagcct attcaaaca caataacgtt ttactcggaa 120
gtccgattca gtgacgtaat atatcgggac gctcgaaatt gaatgttgaa cctctgagcc 180
aactcagacg acaataactt ttactcggga tgtctgattg agtcccgtat tatatcgaga 240
cgctcgaaat tgaatgttga acctttgagc caattcaaac gacaataact ttttactcgg 300

atgtctgatt gaggccata atatatacag acgcttgaat tgaatgttga acctctgagc 360
 caagtcaagg agaataactt tttacttgga tgtccga 397

<210> 17609
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 17609

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 agatgatggg acagcgggtg aaccagaagc ggaagtttct tttggtgagg tagccatgga 120
 aaagcagagc gtttgaatg atttcgtaaa tctcagaagg ctattgggaa atgctggtat 180
 aaacacgaat gccaaacaga tataaatttg aatgaggaat gtagagggtc gtgtgaagca 240
 acggtcgaat tttccttggt tcagtagtga acgtgctatt aatgttaagt gattcgtttg 300
 ggcacgttca gattgctgta gttgctataa ttcctctagc acacaaatgc ccagcttgcc 360
 cctcatgttt tcatac 376

<210> 17610
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 17610

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 aaaacctttc cattcccaag cttcacttgt gttggaaagc ttatgtctgt gtagctagca 180
 gcaacagtca tgatccatgg agcaacattt ccagcagttg aactagaggg gcctgaattg 240
 cctgctgagc aagaaacaaa aactccttta tgcgttgctc cgaacgaggc tatggcgatg 300
 ctgtcattgt aataaggtct tgcaatgcc aataatgaga gtgacaacac atcaacacca 360
 tcagcaacag ctgatcgat agcagccaat atg 393

<210> 17611
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17611

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aattaaatat ttcaacaata taataaagta aaatagtaaa tcataaattt cataataactt 180
aaataatcaa atctagtaat gcatcactat taaataataa cttgcatata ttatagtaat 240
ggtaaatcat ttccattgat gatttgatgt tattagagaa caagagtttt attttattaa 300
aggtagaatt ttttttattc gagaacaaca caataaatga aaatatgttg atcactaaat 360
agacagaaaa taaccanana tgacttatat ttcgggttaa tttttttaac ttattaactc 420
gcc 423
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<210> 17612
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17612

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atatatcaag acgctcgaaa ttgaatgttg aacctatgag ccaattcaaa cgacaataac 120
tatttaatcg gatgtctgat tgagtcocgt aatatatcga gacgctcgaa attgaatgtt 180
gaagcttttag gcaaattcaa acgacaataa ctttatactc ggatgtctaa ttgagtcocg 240
taatatatcg agacgctcga aattgaatgt tgaacctatg agccaattca aacgacaata 300
acttgttact cggatgtctg attgagtcoc ataatatatc gagacgctcg anattgaatg 360
ttgaacctct gaacca 376
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<210> 17613
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 17613

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ttcctcatgt gtacccaaac cttatcacct ggttcaagca cgactttctt tctgcttttg 60
ttggcttgcc ttgcatactt cgcatttttt ttttcaattt gagccttcac ttgctcatgc 120
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tactttcttca tatactcagc tttaacctga gcctccttat gcttaatcat agcaatgttc 180
ggcactatct tctaatacaag aggagtcaaa tgcattgatg catacactat ctcaaattggc 240
gaacaattaa ttgtgctatg gacagcccgga ttatatcaaa ctcaacatga ggcaaacaag 300
cgttccaaaga tttaagattt tcttttaata cactcctaag aggtgtgcct aaagttctat 360
tgactac 367

<210> 17614
<211> 393
<212> DNA
<213> Glycine max

<400> 17614

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catgatttac attgaatgtg aatgtatgta tacatgattt tgatgatgtc aaagaagaat 120
ctaacaaggc tgcttcaaat gataagcatt tgcttcaaga ataattcaag attgcttcaa 180
caaacaaagc cttgtttcaa gattcactaa agaccaagcc ttgccttaaa acaaagtgtc 240
ttcaagacat gcaaggctct ggtaatcgat taccaggaag tgtaatcgat taccagaaga 300
cagggttgag aaatagctgt tgaaaaaggt tttgaatttg aattttcaac atgtaatgga 360
ttaccatattg tctgtaatcg attaccagca acg 393

<210> 17615
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17615

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gcttagctac acacccctta taatagctaa gctcacccca tgagaaaaaa catgaaaata 120
acaaaaaaaaa gtccttatta caaagacagc tcataatgcc ccgaaatata aggctaaaac 180
cctatactac tagaatggcc aaaatacaag gcctagacga aggaaaaacc tatttctaata 240
tttaciaaaga taagcgggct catacttagc ccatgggctc gaaatctacc ctaaggctca 300
tgagaaccct anggcctttc cttggatctc tagcccaatc tacttggagt cttctagcca 360
atgcccttac ggggtaggat tgcataagat agc 393

<210> 17616
 <211> 420
 <212> DNA
 <213> Glycine max
 <400> 17616

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 cttccccata tcaactatac agcttgccgt caacacgaat ggccttccca atattacagg 120
 gatgttagta tcttcggaga tatccattac cacaaagtct gtcgggaaga taaaatgttt 180
 tactctgacc aaaacatctt caattactcc atatggcttg gtaatggagt agtcagctaa 240
 ttgtaaagtc attcgagtgg gcattatttc caactctccc aatcttctgc acatgtagag 300
 tgacatcaaa ttgatactga ctcccaggct aataagagct tttcccatat tgacttctcc 360
 aattgaacaa ggaatagtta cactctgagg attattatgc ttgggtggaa ggatcttcta 420

<210> 17617
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17617

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 agaccccaag tagaatgggc caaagatgca agagaaggcc ctagggttct tatgagcctt 120
 agggtagatt ttgggcccac gggctaagta cgagcccact tatctttgta aatattagat 180
 taaggtttca ttatTTTTTgg gccttgatatt tagggctcca taatgtaggt agggtagcct 240
 agaaatatag gatTTTTTcag cccttgatatt ttagggcacc tagactagtt tttgtattag 300
 gggtagtttt gtaatttcac atgcactaag tggatatttg atgtgtgtgg gtggaaataa 360
 atttaattga attggcagaa gcccaatcca attaaatttt agagagggag gtgagcat 418

<210> 17618
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17618

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 taattatgac ctctcaagca atagatacaa tccagggttg aggaatcata caaatctgag 120
 atggacaagt cctccacaac aacaacaacc tatccctcca tttcagaatg ctgctgggtcc 180
 aagcaagcca tatgttctct ctccaatata tcagcagcaa cgacaatagt cataacaaag 240
 acaacaagca actgagggttc ctctgaacc ttccttagat gagttagtga gacaaatgac 300
 catccagaat atgcaatttc agcaagagac aagagcctnc attcagagtc tgacaaatca 360
 gatggggcag atgactactt agat 384

<210> 17619
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17619
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 actatacagc ttgcggtcaa cacgaatggc ctttccaata ttacagggat ggtaatatct 120
 tcggagatat ccattaccac acagtctgtc gggaagataa catgttctac tctgacccaa 180
 acatcttcaa ttactccata tggcttggtta atggagtagt gcgctaattc gtaagtcatt 240
 cgagtgggca ttatctccta ctttgagcat cttctgcaca tggtgagaga catctaatag 300
 atactgactc ctaaggcaat aaaagctgtt ccccttgac ttctccatat gaacaacgag 360
 tactaagact ctgaggatta tta 383

<210> 17620
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17620
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 catggccaat tctactagta atttacaatt ttcctccttg gttgtgcatg cagtgaaaat 120
 acatgatgtt gtcgatgatg atatcaggcc caagacagcc aggaaatgac attgatgttt 180
 atctaagtcc gttgattgaa ggcctgagaa agctgtggga cgaggggggtt ttagtgtttg 240
 atggggtttca gaatgagact tttctaagtc atgcaatgct tttttgtaca attaatagact 300

ttccagcata taggaatttg agcagttaca gtgttaaggg tcatcatgca tgccccatct 360
gtgaagaaga cacaagctac a 381

<210> 17621
<211> 402
<212> DNA
<213> Glycine max

<400> 17621

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agatatctta agaagggggg attgaattaa gatattccaa actacttgcc ctaattaaaa 120
atctatttca ctttttattc aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180
attcaaataa cacaatttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
aagagaaaat gcaaactcag ttttatactg gttcggccac acccttggtc ctacgtccag 300
tccccaagca acccgcttga gagttccact atcttgtaaa ttccttttac aagtgtctaa 360
acacgcaagg acaatccttc ctttgtgtgt agaattcctt ta 402

<210> 17622
<211> 404
<212> DNA
<213> Glycine max

<400> 17622

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agctggggag gctgagagat ggttgcatc attcaagggc aacagtggaa agacctggga 120
tgaagttgat gacaagttcc taaaaaaata tttcccacag tctataaaaa tattttgagt 180
gaggcattac aaagatttcg tatcttgctg tggaaaactc cactcatgg tttttcagag 240
cctatacagt tggacatctt cattgatggg ttacgactgc agtcaaagca tatactcgac 300
acttctgcag gaagaaaaat taagttgaaa acacctgaac aagccatgta aaccttatct 360
tacttgacac ttattaaatt gccaacagga tgcgtgctat ctta 404

<210> 17623
<211> 368
<212> DNA
<213> Glycine max

<400> 17623

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agcaattttg gatattggca aggaggaatg agtcatttct aagacaaaaa tctagatcta 120
gatggtttagt ggaaggagac aacaactcaa tattcttcca tgggtactatt aattggagga 180
gaaggaaaaa tctacatagg ggtctacata ttgatgggat ttaggagggtg gattcctaaga 240
aagtaaaatg ggaggtgaag aatttctttc aaaaaatatt cttggtggag gatttggatc 300
ggccaaagct tgatgggaca agattaaaac atatctctca acaacaatat gagagtttca 360
tcgcaaga 368

<210> 17624

<211> 363

<212> DNA

<213> Glycine max

<400> 17624

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cctcatgaat gtcattgcct aacactgttc atgtgtcctc caccttcgag tctggagccc 120
cgcgaaatgtc atcgccctaac actgatcgcc aattctccat tccccactat cattcggagc 180
cccatgaatg tcattgccta gcgctgttca tgtgtcctcc accttcaagt ttggagctat 240
gcttcatgat tgccctaaatg tggaccctca agtgcaatcc tccattctcc acttttttcg 300
gagcccatg aatgtcattg cctaccgcta ttcattgtgtc ctccaccttc gagtacggag 360
ccc 363

<210> 17625

<211> 415

<212> DNA

<213> Glycine max

<400> 17625

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aagttattgt cgtttgaatt tgctcagagg ttcaacgttc aatttcgagc gtctcgatat 120
attacgggac tcaatcagaa atccgagtaa aaagttattg tcgtttgaat tggcacagag 180
cttgaacatt caagttcgag cgtctcaata tatgacggaa ctcaatcaga catccgagta 240

aaacattatt gtcgtttgaa ttggctcata ggttgaacat tcaatttcga gcgtctcgat 300
atattacggg actcaattag acatccgagt aaaaagttat tgtcctttga attggatcag 360
aggttatcca ttcaatttgg agcgtctcga tatattacgg gactcaatca gacat 415

<210> 17626
<211> 399
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17626

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tgcttcaagg atttgcttac cagatgacag taaagttgga actttgtcat gacgaacctg 120
cttctgattc tcttttaact caaaatcatt agcataagga agattagtat gtccattaaa 180
ataaccattg tttattgagg aagcgtcaag aagtgggtta aagaactgaa aaataaaacc 240
agctgccaaa cttgaacggg aagtgggttt tgaggatatca tctttaggta caatagtggc 300
tgtaaccaag atgacagcat cgtatagaat gctagcactt aaaagctntc cagctaanaa 360
ctcctcaaca tattttgctc tgattgcatg cttactcgg 399

<210> 17627
<211> 382
<212> DNA
<213> Glycine max
<400> 17627

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ggctcatggg ccactttggg atagacaaga cccttgtctt actcaaagaa aagttttatt 120
ggccccatat gaagaaagat gtccataagc attgcactag gtgtgtggct tgtttacaag 180
ccaagtctag ggtgatgcct catgggctat acacaccctt acccatcccc tctgtacctt 240
gggtagacat tagtatggac tttgtccttg ggcttcctag aacccaaaga ggtgtagact 300
ctatctttgt ggtggtggat aggttttagca agatggcaca cgttatacca tgccataagg 360
tggatgatgc ttcccacatc tc 382

<210> 17628

<211> 400
 <212> DNA
 <213> Glycine max

<400> 17628

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 tccacattat tggggatttg gagtagaatc acgaggaaca acctcaaaaa ttctgatcc 120
 ttttgctata gaacaaggta acccaacaaa aattaaaaat ggatatgagg agaaatggtt 180
 gctcaacatc atggtcattg atacacgtgg tgcacaagat aagaaagctt gcactcaatg 240
 tagatgtgac cagatgaatc tcccgaagga cttttataat gtcacaaggg atatacataa 300
 ccaaaaattg actacaaatt ataaaggagg tctattttgt tgtcaggaca acttacaatg 360
 caagcaaata gaaggttttc aaggttcaag gagaatggtt 400

<210> 17629
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 17629

caacacatgc acagtggcca aggatgcatg ggagatcctg aaaaccactc atgaaggaac 60
 ctccaaagtg aagatgtcca gattgcaact attggccaca aaattcgaaa atctgaagat 120
 gaaggaggaa gaatgtattc atgacttcca catgaacatt cttgaaattg ccaatgcttg 180
 cactgccttg ggagaaagga tgacagatga aaagctgggtg agaa 224

<210> 17630
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 17630

agcttgacat taatatttat ttcttttctg gaggccatca attgtttata atgagagtaa 60
 cttacactat tctatatctt ctttgttgga gttggtgggt cgaaactaaa ttaaagaata 120
 atagtgggtc caaaatatat attattatgc acaaaaaaga ccaaactaaa cgtgcaggta 180
 aaggttgagt ttaattatca taaagtgttt atatatagtt ggcctttgtt ggtcgatttt 240
 gccagtgtca tataaactag tattaaggag ctagaggcaa tgggaaagag caatgttctc 300

gttgagggtg gaactgggta tgttgggatg aaaatattga atgcaagttt attacatggc 360
catgaaacct atgttcttca acgt 384

<210> 17631
<211> 374
<212> DNA
<213> Glycine max

<400> 17631

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gactgaggat aattgcacta tgtgccttct acagtaatgc tttcttatcc ccatcaccca 120
tcattctttc aagtttggct tctccatcaa gtgcttcac caggccctgc tgaacaagaa 180
gagttctcat cttcaatcgc catagcccga aatcattttg ccctgtgaat ttttcaacct 240
catacttggc tgagcccatt tcttgaatcg aactcaaat tgctctatgc tcaccgcacc 300
aatttgttgt gccaatgca gattataatt cacaaaagaa tgagtttctt gtatgaacaa 360
gaataagcaa aatg 374

<210> 17632
<211> 414
<212> DNA
<213> Glycine max

<400> 17632

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ccataataat gacttttggc acatagtgat gaccaaatat ttggtcgtca cttttcattg 120
ataatcttgt agaggatgca cttgaattac tcattgttgt atataaattt attttaacaa 180
gaaaacgaaa aaaaatatat tcaagagttt atatttttta taagtaacaa aattactaaa 240
gaatatcttt tatctaaaaa gtatatattga atggtaattt aactgttact gtctatttac 300
ttttcataaa ttatatatga taatatattc catagaagtt aaagaacgac tatattatca 360
ttatttaaatt atttatcata gagaataaaa aatgtttcac ataatttcta atga 414

<210> 17633
<211> 394
<212> DNA
<213> Glycine max

<400> 17633

tctgcctttt ctattttctgt gacctgaact gtatttgtct tcttctcttt atccagatcc 60
ttaaactgca gtgattgtct gtagtcactt gtggcagtga cgaacactac aagcaatatg 120
cttgcaacaa taccaattcc atcctgtgca cctttggggc acccttccat taftatacca 180
accaccaaag agaccaaggc acagacagca agtatcatga gggttgtatc ttgaagggat 240
tcccatacat aaacccaaaa tccacgggct ggactttcag cgaatttatt aactccataa 300
atttcttttc tctgattcac caagtgtca gatgttgata taccatcatc aactgaggta 360
ttgagtttgt ttgtgatagc atcaacccca ccat 394

<210> 17634

<211> 381

<212> DNA

<213> Glycine max

<400> 17634

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ggtcataact tttcacacgg atgtccgatt caggcaaatt acatatcgag tcgctcaaaa 120
ctgaacaacg gaagctcttg agaaattcaa atggtcataa cttttcacac ggatgttaga 180
ttaaggcgca tcacatataa agacgctcga aaatgaacaa cggtagctct cgagaaattc 240
aaatggtcac cacttttcac actgagggtc gattcaggct tataatatat tgatatgctc 300
gaaattaaac atcggaagct ctcgagatat tcaaattggtc ataatttttc acatggatgt 360
ccgattcgag cgcataatat g 381

<210> 17635

<211> 403

<212> DNA

<213> Glycine max

<400> 17635

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tcaatttcga gcctctcgac atattatgcg cccgaatcgg acatcgggtg taaaagtcac 120
gatcatttga atttctcgag agtttccgat gtttaatttc gagcgtattg atatattgta 180
accctgaatc ggacctgagt gtgacaagtt atgaccattt gaatttgacg agagcttccg 240

ttgttcaatt tcgaatatca ctatatgtga tgcgcctaaa tcggacatcc gtatgaaaag 300
 ttatgaccat ttgaatttct caacagctgt cgttggacaa ttctgagtgt ctogatatgt 360
 gatttgcttg aattggacat gcgtgtgaaa agtatgacca ttt 403

<210> 17636
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17636

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 aagggtgttg cgtttgaatt agctcagaag ttcaacattc aatttcgagc gtctcgatat 120
 gttacgggac tcaatcagac atccgagtaa aaagtcattg tcgtttgtat tggctcagag 180
 cttcaacatt caatttcgag cgtctcgata tattacgagc ctcaatcaga catccgagta 240
 aaaatttatg gtcgtttgta ttggctccga gtttcaacgt tcattttcga gcgtctcgat 300
 tagttacggg actcaatcag acatccgaga gaaaagttat tgtcggttga attagctcag 360
 acgttcaaca ttcaatttcg agcgtcttga tatgttacgg gacttaatca gacattcgag 420
 taaaaagtat tgtcg 435

<210> 17637
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 17637

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 aaagggtattg ttgtttgaat ttgctcaaag cttcaacatt caatttcgag cgtctccata 120
 tattacggga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttgctcaaaa 180
 gtttcaacat tcaaattcga gcgtctcggt atattatagg actcagtcag acatccgagt 240
 aaaaagttat tgacgtttga atttgctcag agcttcaaca ttcaatttcg agcgtgtcgc 300
 tatattacgg gactatatca gacatccgag taaaaagtta ttgtcgtttg aatttgctca 360
 gagcttcaac attcaatttc gagcgtctcc atatattacg gactcaatc agacatccga 420
 gt 422

<210> 17638
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17638

tgttgacaaa gctgaaaagt gtgtctttgt tgttgtttgt gaaacatcaa aagcatataa 60
 gttatttaat ccactaacia agaagattgt gaccagcagg gatgttattt ttgatgaaga 120
 caacacatgg gactggaatg agcagcaacc caattcaatt attgttgaca atgaagatgt 180
 aaaagaacta cagctactcg taaacattgt cttaacatct ccaaataag ctcaaatagc 240
 tcctgagaca gagatttcaa caccaacaaa tgctggaaca acagatgcaa ctagacatgg 300
 caatggggcg ggtcgggtac aggtattgtc tccccaatcc cttaccccg cgccctcgaca 360
 tattccgata cccgtacccg ata 383

<210> 17639
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17639

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 attcacaaat accttgtgcc atagttttta actcagattc agcactagat tgaaccacaa 120
 cattctgttt tttaactctc caaattacta agtttctctc agaaagggtgc aatatccagt 180
 agtggatctc ctattagtta ctgaccctgc atagtcaggc atttgtaagc ttcaaggatt 240
 gtattaacat ttcttttata taaaattcct ctctcctagt ttcccttgat tgcaaaatcc 300
 tataagtgcc atgtaagtga acttctcttg gacaatgcat aaatttgcta accaaacttg 360
 tagtgaatgc agtatctggc cttgtgtgag agtcagacaa gatattntaat ttcccaacca 420
 aacattgata catctc 436

<210> 17640
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17640

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aagttattgt aatttgaatt tgttcagagc ttcaatattc aaattcgagc gtctcgatat 120
attacgggac tcaatcagac atccgagtaa aaagttattg tctgttgaat tggatcagag 180
cttcgggtatt caatttcgag ggtctcgata tattgcagga ctcaatcaga catacgagta 240
aaaagttatt gtcgtttgaa tttgctcaga gcttcggaat tccattttga gagtctcgat 300
atattacggg actcaatcag acatccgagt gaaaagatat tgtcgtttga atntgctcaa 360
agcttcggaa ttccatttcg agcgtctcga tatattacgg gacttaatca gacatccgag 420
taaaaagtta t 431

<210> 17641
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17641

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attgaaaacg gaagctctta taaaattcaa acgacaataa atttttactc ggatgtccga 120
cagagggccg tattatatcg agacgcttca aattgaaata agaagcacgt agcaaattcg 180
aacaacaata agttttcact tggatgtccg attgagtcct gtaataaatc aagacgctcg 240
aaattgagaa cagaagctct tggcaatttc aaacgacaat aactttatag tcgaatgtcc 300
tattgagtcc cgtaatatat cgagatgctc canattgaan atggaagctc gtaacaaatt 360
caaacgacaa taacattata cacggatgtc cgactgagtc ctcgtatata tcgagacgct 420
ctaaa 425

<210> 17642
<211> 436
<212> DNA
<213> Glycine max

<400> 17642

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ttctcgagag cattcgttgt tcaatttcga ggggtgctgat gtattatgcg cctgaaccgg 120
 acttccgtgt aacaagttat gaccatatga atttctcaag agctttcgtt gttcaatttc 180
 aagcgtctag atatagtttg cgctgaatc ggacttccgt gtgacaattt atgactattt 240
 gaatttctcg agagcattcg tggttcaatt gcaaccttct cgctatataa cgcgcctaaa 300
 tcggacttcc gtttgaaaat ttatgaccat tcgaatttct cgagagcatt cgttgttcaa 360
 tttcgagcgt ctcgatgtat tatgcgcttg aatctgactt ccgtgtgaca atttcttacc 420
 attagagttt cttgat 436

<210> 17643
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 17643
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 cctttacttc ctttagcaaa tggcaatttt gcatcttttt cagaagcatc aaaaggagtc 120
 tcttatttca tttgtgatga atttgaatat aagctgatgc agccagtttc tgatagagta 180
 attgatcaga acattcctcc caatatattg aacaaactca ctggtattgc gatgtcctca 240
 aagaccaatg ttattctttg tagtattcac cattttgctc agctattccc tgcatttatg 300
 tcagctgact ggaaatatag gagtaaaagt gttctgggac cctgaatctt gtcgaaagcc 360
 aacgtcatca tggtttctgc tattctggca atat 394

<210> 17644
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17644

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 aattcatgtg cataatatat cgagacgctc aaaattgaac gaggaaagct ctcgagaaat 120
 tcaaattggtc ataacttttc acacggaggt cagattcagg cgcataatat atcgagatgc 180
 tcgaaattga acaatggaag ctctgagaa attcaaattg tcttaacttt tcaactcggag 240
 gtccgattca ggcgcataat atatcgagac gctcgaaatt gaacaatgga agctcttgag 300

caattcaaat ggtcttaact tttcacatgg aggtccgatt catgcgcata atatatcgag 360
 acgctcgaaa ttgaacaatg gaagctcttg agcaattcan atggtcataa cttttcacat 420
 gga 423

<210> 1/645
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17645

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 ncaaacttct aatgctgatg gttttctgtt tggttatcca acaacatttg gatccatggt 120
 ttctcaatth aaagcattth tagaagacac tataagectg ttgtggctta cacaggcact 180
 agcaggaaaa cctgtagggt tcttctctag cactagtctt caaggagggt gacaagaaga 240
 gaccccatga gttatattaa ttattactga attcttcaat attcatgatt aaggtttcca 300
 tcaattaatg gttattttgt atatatccac tcaacatgag agaagtcaga tcaaactatt 360
 agtcactact 370

<210> 17646
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17646

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 cttcaattct tcagtgggct ttccttctgt gtccagcacc ttgggatggt cccagccttt 120
 gatgacagct ttccaagttc tgetatccag tgatttgagg aaggccacca ttcttgcttt 180
 ccaatattca tagttgcttc catcgagaat aggtgggtctg ttcactgggc cgccttcttt 240
 ctccatgttc atcagaattt atctccctag atctcactct gtgatttcga gtgttggttc 300
 tgataccaat tgaaattctg ataccaaggg acagatgtcg tacaggatgt cacgacatca 360
 cgttcagaa catgcagatt atatgtgtgc gtatgaacag attaaacaag tgaataacac 420
 acgagaattg ttacc 435

<210> 17647
 <211> 430
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17647

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 tgttcttgtg aaaatcaaaa gcatatattg tgacatgcat ttgactatac atgtcatatt 120
 ttatgtcata ttttaagtgg tgcagaagac gaggaataag aatggaaggg agaaagatgg 180
 taacatttta tgctaattgat tcaaatttaa cgtgagactt aatataaaat ttaaattact 240
 tttagaatca aaatgattat aaatgataaa atttaggaac caaaatataa aaaagtaatt 300
 caattcgata actaaattta ggttgtgatg tcataagtcc taaaaaataa acaataaaaa 360
 atcaactttc attntagtca tggattgtca tgtattcaaa caacatttca cataaatacg 420
 aacattaacc 430

<210> 17648
 <211> 428
 <212> DNA
 <213> Glycine max

 <400> 17648

aagaagattc ccaaagaaga tagagcttag ctacacttac ctctctaata gctaaggtca 60
 cctccttgag atgagaagct agagcttagc tatacacccc ctataataac taagctcacc 120
 cccatgaaaa atacatgaaa atacaaaaaa aaatccctac taaaaagact actcaaaatg 180
 cctcgaaata caaggctaaa accctatact actagaatgg cgaaaataca aggcccaaac 240
 gatggaaaaa cctattctaa tatttacaaa gataagcggg ctcatactta gcccatgggc 300
 tcgaaatcaa ccctaaggct catgagaacc gtagggcctt cccttggatc tctgacccaa 360
 tctacttggg gtcttctatc caatgccctt gcgggtagga ttgcatcagt gtctcccctc 420
 ccctcttc 428

<210> 17649
 <211> 430
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17649

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tctaaactnt atacaagaat gaagctctgg taccacttgt tggaaaagtg gcctcatata 60
tcttaagaag gaggggttga attaagatat tacaaattat ttccccaatt aaaaattgta 120
tttaactttc tattcaagtt attaattccc ttaataatga atttcttaaa tattgattca 180
aatagaacaa tttgaatatg aatataaaac aataataaat aaaggagttt aagggaagag 240
aaagtgcaaa ctcatattta tactggttcg gccacaccct tgtgcctacg ttcagtcccc 300
aagcaaccog cttgagagtt ccactatctt gttaaattcct ttacaagtt ctaaacacac 360
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atcccttttc 430
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<210> 17650

<211> 421

<212> DNA

<213> Glycine max

<400> 17650

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cttctattaa ctaaattaac ctccctgaaa ataattacgg ataaaaaata acataacaaa 120
taatcaaaca tcaaacataa ttaactaataa tatatagata tatatatata tgagggtgtt 180
acattgggtc ctaagttgtg gttctttatt gttggagggt tgaaaacaaa aggtaaaaga 240
aactatgggt gaaactagcc aaaataaaca ctaaagagg tgtgaaagat aaggtaaaaa 300
actaatcggg aaaaggaaag ctatctaagc ggtttgacag tggaaggtaa aggaaataag 360
ctacgaaagt aagcaagaaa tgtaaaactat gcgaatccta agagtgtgtg gatgaccaca 420
t 421
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<210> 17651

<211> 441

<212> DNA

<213> Glycine max

<400> 17651

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tctccttcct tttcctataa ataggggaag gagggaataa cataaagggt caacccttct 60
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ggtatctgag attcacttaa aattagtgag aaaaattggt tccgttggtta gtgcttagct 120
 ctactgagct ttaaaagatt ggctaagatt ttgttaaaac ataagcactt agacaatgaa 180
 ggaaagctgg agttgctgca catgatgtcc aacgttatgt caaagaataa gatcgggctg 240
 cacaatgcac aaggcaagat gaaatgtcaa atgaagaatt gaagctgcat gattcacgat 300
 gtcggataca atgtccagga catcctgccc gaaaatactg gagttgctaa aagcattgaa 360
 gctgcaggat ccacgatgtc ggatacaatg tccaggacat cctgcccga aatactggag 420
 ttgctaaaag cattgaagct g 441

<210> 17652
 <211> 416
 <212> DNA
 <213> Glycine max
 <400> 17652

ctgatgatag aggatgcacg aacagagctt gcaatctatt ttggggctcc ggactcaatg 60
 gtggaggatg gatgaacgac aatcaattcg tggggctccg aataagattt gatgatggag 120
 gatgcatgaa cagcgctagg caatcaattc atggggcacc gtactcaatg gttgaggatg 180
 catgaacgac aatcaattca aggggcttcg aataagcttt gatgatagag gatgcacgaa 240
 cagagtttgc caatcaattc gtggggctac ggactgaatg gtggaggatg catgaacgac 300
 aatcaattca tggggctgcg aataagatgg tggaggatgc acaaacaaca ttatgcaatc 360
 aattcgtggg tctctagact caatggtgga ggatgcatac acgacaatca attcat 416

<210> 17653
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17653

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 aggacatgaa tgggtgcagcg ctttatcgtc gatgcttgac ctgcaagaaa ttcgcatgtc 120
 caagtgcaat ctctcgggac ccttggattc ttccctggca agacttgaga atctatcagt 180
 cattgttctt gatatgaact atctatcatc cccagtgcca gaaacatttg cccatttgaa 240

aaatctcacc atcctacgcc tttctgagtg cagattgact gggacatttc cacagaagat 300
 cttcagcatt gaaacattgt ctgttattga catatcactc aaccaaatac tcaatggttt 360
 ctttccaaac ttccattga gcagatcact tcagacctta naagtaagaa acacaagctn 420
 ttctggagca ttt 433

<210> 17654
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17654

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 ccttatatta gcagaggaca aaacagaaaa ataacagaaa aacttccata tggatttagg 120
 tcatagccca acacataggg acctcaagcc tgagaacttt ctctttgata ctgttgagga 180
 ggggtgctaag gtcaaaacta ctgattttgg gctctccgtg ttttataacc caggtttggt 240
 tgctctctcg ttagatttgt tttttgtgga agatgccgag ggagagggct tggtcgtggg 300
 ttttggtgga ggtggngatt ctgatgatgt ctttgagttt tccttggcgg aggagctcgc 360
 cgatgcagtc gcttggcagt ggagccaatg ccgaggacca tgccggactt gacatactcg 420
 atgaccttgt 430

<210> 17655
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17655

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 cacaggctat gtgacaaaa agtccccctcc tccacctgtg gagtttccta cctcaccaca 120
 actcatattt ggggaggaga ttcttcactt cagccacct cagcaccctc tctcaatggg 180
 ggatctccct gacctgttca attgtgtggg gtgcaaagag tatggctctg gaaagaggtt 240
 tgtttgccag caatgtgatt ttcagctgca tgacttctgt gccttggctc ctctgctct 300
 caaggcacac ccctttcact cacaacactc tgtcttggtc cattccaaac caggtaaacc 360

acgtacatac atacatatat atatattcat gagtacaatt gtacaaatgt aatnttttat 420
 ttaaataatta tatta 435

<210> 17656
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17656

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 gtgtagactg cttcagccca aaatgtgtta agtagtcctt tctccttgag catcgatcta 120
 gctatttcca taactgtgcg attctttctc tcggacactc cattttgttg aggagaatat 180
 gagactgtaa gttgtcgcta aatgccttca tcctcacaâa atctttcaaa ctgcgcgagag 240
 gtgtactctn tgctgtgatc acttcttagt acttttatcc gttttccact ttgattttta 300
 gcaagggcct tgaactttnt gaatactcca aagacttctg attttttctt ttagaaaata 360
 taccatgcc attctagaga agtcatcaat gaagagtatg aagtaccctg tgttctcat 419

<210> 17657
 <211> 353
 <212> DNA
 <213> Glycine max
 <400> 17657

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 atatatcgag acgttcgaaa ttgaacaatg gaagctcttg agcaattcaa atgatcataa 120
 ctttttacta agatgtccga tgcaggcaca taatatatcg agacgctcgt tattgaacaa 180
 cggatagctc tcgagaaatt caaatggtca taactttcca cacggatgtc agattcaggc 240
 gcataatata tcgagacgct cgaaattgaa caacggaagc tctcgagaaa tataaatgga 300
 cataactttt actcggatgt ccgattcacg cgcattatat atttagacgc tcg 353

<210> 17658
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 17658

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aaagttatga ccatttgaat ttctcgagag cttccgttgt tcaattttga gtgtcttgat 120
atattatagc cctgaatcgg acctccgagt gaaacattat gaccatttaa atttctcgag 180
agcttccgtt gttcaatttc gagcgtctct atatgtgatg tgcctaaatc tgacctccgt 240
gagaaaagtt atgaccatth gaatttctcg agagcttccg ttgttcaatt tcgagcgtct 300
cgatatctta tgcgcctgaa tcagacctcc gagtgagaag ttatgaccat ttgaatatct 360
caagatcttc cattgttcaa ttctcgagcat ctcgatatgt tatgcgcctg aat 413

<210> 17659
<211> 325
<212> DNA
<213> Glycine max

<400> 17659

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tcatgatcat tcgaatttcc tcaaagtttc cgatggataa cttcgagcgt atcgatatat 180
tattaccctg gatttgacct cagtctgaaa agttatgacc atatgaattt gacgagagct 240
gtcgatgac aatttcgaat atcaactgtat gtgatgcgcc tgaattggac attcgagata 300
aatgttatga ccatgtgaat ttttc 325

<210> 17660
<211> 345
<212> DNA
<213> Glycine max

<400> 17660

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ttgaaagtta ttgtcatttg actgttcata gagcttccgt tttcaattat gagcgtctcg 120
atatectacg agactcaatc ggagatccgt gtcaaaaagtt attgtcgttt gaatttgcta 180
agagcttctg ttttcaatta caagcgtctc gatataattac gagactatat cggacatccg 240
agtcaaaaagt tattgtcggg tgacttttct tacagcttcc gttttcaatt ttgagcgtct 300
cgatctatta cagggttcaa tcggacatcc gagttaaag ttatt 345

<210> 17661
 <211> 352
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17661

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 atcaagacgc tcggaattga aaacggaagc tcttagaaaa atcaaatgac agtaactttt 120
 aactcgaatg tccgattgag ccctttaata tatctagacg ctcgaaattt agaacagaag 180
 ctctatgata agtcaaatga cagggacttt caattctgat gtctgattga gtcccgtaat 240
 atatcgagac gctcgtaatt gaaaactgaa gatctgagcg aattcaaacy acaataactt 300
 gtgactcgga tgttcaattg cgaccogtat gatagcgaga cgctcgtaat tg 352

<210> 17662
 <211> 361
 <212> DNA
 <213> Glycine max
 <400> 17662

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 ccagctaaga caccaagatc ctgagggatt atggtgcttc ttcggagatt ttaacagcat 120
 tagacaccag tccgagagag aaggggtggc tcacaggggt atggaagcaa acaacataac 180
 tgattttagt gaatggctag ccgacctaga ggtagaagaa atacctagtg tggggagaag 240
 attcacatgg tttaatccaa acgggactgc aaagagtaaa ctagatagaa tttttgtctc 300
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 g 361

<210> 17663
 <211> 374
 <212> DNA
 <213> Glycine max
 <400> 17663

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ctatacgaga catctttcca aacaaagtca ggtagcgat aactcgctg tgcTTTTTct 120
tccatgctat atttagcaaa gtcattgac cagtcattgt tgttgagttg gaaaatgagg 180
ccacaattat actgtgccag ttggagatgt attttcccc tgcTTTctt gacatcatga 240
ttcacttgat tgtgCAtCtG gtcagagaaa tcaaagtgtg tggTcctgtt tatctacaga 300
ggatgtaccc ggttgagcga tacatgaaga tcttaaaagg gtatacasag aatctatato 360
gtccataagc atct 374

<210> 17664
<211> 365
<212> DNA
<213> Glycine_max
<400> 17664

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ccattctgct gccattgac ttcaagaagc aaaggatttc attgatgaag aagatccaag 120
gcctacaagc tctacatgga gctacatcat gtggatatcaa gagcatcttc atctaagtga 180
tgTtcttttg ctTctctat cttttgcttg gtcaattcac tttaatctct tgttcttcat 240
catattctcc atgtatctcc tccattatct tgtgggttgg ttctgatcat agtagattca 300
aaaatataaa tcgattaaat cctagatcta tacttgttct tgcatttcta tggctcaaat 360
tttat 365

<210> 17665
<211> 363
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17665

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ctgtggaaga tcttgggttg caaagagatc ctttcaaggc ttttcattac agggaggtac 180
attggaggag ctgatgaagt tgTcggttg catgagatgg ggtggcttgg aaagcttttg 240
gaaggaacac caatggactt tgctgatgg ctttgcaaag gttgtgcctg catgaggttn 300
tccatttgtt ccaatcgtaa tggtagttgc aaagagttta ccaccaatgg tgacaacacg 360

aat

363

<210> 17666
<211> 396
<212> DNA
<213> Glycine max

<400> 17666

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gcttagaaga ttttctttta ggctgggaac tagtaagaca tcatgaatga gtcgctgacc 180
tttatctgtc tccaccatga cagtgccttt gccttttgat tcaaccacac ttccatttcc 240
cagtcgaact ttgactttga cagactcacc aatgcttttg aaaatagtct catccttggc 300
catgtgattg ctacatccac tatccaagta ccagcttccct ccccttttctt ttattgagtc 360
ttgagtggca tagaacatac attgttcttg atcatg 396

<210> 17667
<211> 415
<212> DNA
<213> Glycine max

<400> 17667

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agaagaatgt ggcatttacc tgggggtgaaa aacaagagca agcctttgct ttgctcaaag 120
aaaagcttac taaggcactt gttctagctc ttcttgactt ttctaaaact tttgagctag 180
aatgtgatgc ttctggagtg ggagttggag ctgttttggt gcaaggtggg caccctattg 240
cttatttttag tgaaaaactt catgggtgga cccttaacta ctccacctat gataaagagc 300
tttatgcctt aataagagca ctccagaactt gggaacatta ccttgtttcc aaggaatttg 360
tcattcatag tgatcatcaa tcaactaagt tcattagagt gcatagcaag ttaaa 415

<210> 17668
<211> 354
<212> DNA
<213> Glycine max

<400> 17668

agcttgattt atactgggttc ggcacttgc cgcgcctacg ttcagtcctc aagcaaccca 60
 cttgagattt tccactctct ttgtaaaact cctttttacaa agtctgaacc acacagggac 120
 aacccttccc ttgagttcag gaatcctcta caacaagaga cccacgatct cttaatccct 180
 tttcagaaat aagaagaaga aatctctctt aaaagagata gattgtacaa tgaagatcaa 240
 taaaaattcc ttattgaata tgcaagtggg tgaccaagga atctttttga gaggataaaa 300
 ctattgggca atgaaaactc tcttttaaatt cgtgtttcca agtcaccttt gatg 354

<210> 17669
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17669

tcaaaaggag ccataccaat actgggttgg ttgctattgt tgtaagtaaa ctcaatcaat 60
 ggcagacaat ccatccagct accttgttgc tctataatac acgcccgaag tagatcttcc 120
 aaagtctgaa tagttcgttc agtctgacca tctgtttgag gatgataagc tgaactaagc 180
 ttcagctttg tccccaaagg ttcattgtaga cttgtccaaa atcgcggaagt gaacctcgga 240
 tccctgtctg atacaatact agaaggaatt ccatgcaacc ttactacttc cttgatgtac 300
 aactccacta gcttctccat tctatacttc atattcactg gaataaaatg agcagatttg 360
 gtgagtcgat ctactatgac ccacacagca tcgtgtccac gactag 406

<210> 17670
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 17670

gaccttagaa actaagctta caagggcttt gacatttggg gtaggcataca agattagacc 60
 tagcatccac tatatcatga gtcacaccag ctttacaagc ttacacatgc ttttgcttaa 120
 caagttcaac aacgagcaaa cactggctg cactcaaatt ataaccacca gcaaaccat 180
 ctcttgaac accattccta accattgcac tgaaaagatt caccgcttcc acctcctaac 240
 catgggaccc ataacctgaa ataatcgaat tccacagcac agcacacggg tcaaccttac 300
 tatcaaaacc actttttgcc tccctcattc tggcagcatt ggcataacca gatatcatag 360

ctgacaaaga gaactcatcc acattcgtta caaaactcac aatgcgagca gcacttttca 420
aatcaccaca ctt 433

<210> 17671
<211> 372
<212> DNA
<213> Glycine max

<400> 17671

agcttttgaa ttttatctgt ttaagcgtcc catgttaatg cgagctaatt ctattatgcc 60
atagccatgg atcattatct ttgctaagac aacattgact attacctaaa ttttgactta 120
agtctatcat gtaaacatta ttgactctaa accctatatg*ctttatattc gtatcatgtc 180
catgttcaat gacacattgt tgagaaccaa atgataccag atagccgttg tcacacactt 240
gactaacact aagcatgttg tgcttaagac ctccaactag tagatcattt tcaatggagg 300
ttgaagaatt tgacctatct ttccaactcc aagaattcta ctttttgtgt tgtctccata 360
cgttacatgc cc 372

<210> 17672
<211> 363
<212> DNA
<213> Glycine max

<400> 17672

agcttcaaga ttaagatggc ctcagcaaatt tccttatttc cagaaggga ttttatcaat 60
agacctccaa tctttaatgg agagggttac cactactgga aaacccgaat gcaaattttt 120
atcgaggcaa tagatctaaa tatctgggaa gccattgaaa tagggcctta tataccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
cctagagata gatgggtctga agaggataga aaacgagtag aatacaacct aaaagccaaa 300
aacataataa catctgccct atgaatggat gaatatttca gagtttcaaa ttgcaagagt 360
gct 363

<210> 17673
<211> 400
<212> DNA
<213> Glycine max

<400> 17673

tgcgggccct caggcaatcc tgcattctcc ctcttttttc tgagcccat gaatgttatt 60
gcctagcgct gttcatgtgt cctccacctt caagtttgga gctatgtttc atgattgcct 120
aagtgcggac cctcaaggcg atcctccatt ctccccgttt tttggatccc catgaatgat 180
gtagcctagc actgctcatg tgtactgcac ctttgagcta gcggctatgc ttcattgattg 240
cctaagtgca gacctcaat gcaatcctcc gttctcccc tttttcagag ccccatgaaa 300
gttattgcct accgctgtac atgtgtactc caccttcgag gttggaacta tgatacatga 360
ttgcctaatt ggggaccctc aaggcgatcc tccattcttc 400

<210> 17674

<211> 362

<212> DNA

<213> Glycine max

<400> 17674

agctttctcc actaagttgc ctgatgccta aaatgtcttt tctgatggaa gtggtcctag 60
atgcaaggaa taatttctcc aagaacaccc tcttaaggtc atcccagctg aaaatggacc 120
tgaggagcaag gtagtataac caatcttttg ccactccctc tagagaatga ggaaaagcct 180
ttagaaagat atgatcttcc tggacatcag ggggcttcat ggtggaacaa acaatatgga 240
actccttaag atgcttatga ggatcttcac ctgcaagacc atgaaacttg ggcaacaaat 300
gtattagtcc agtcttaaga acatatggaa caccctcacc aggatattga atgcacaagc 360
tt 362

<210> 17675

<211> 357

<212> DNA

<213> Glycine max

<400> 17675

agctttctcc actaagtttc ctgatgcctg aaatgtcttt tctgatggcg gtgatcctag 60
atgcagggaa gaatttctcc aagaacaccc tcttaaggtc atcccagctg aaaatagacc 120
tgaggagcaag gtagtatagc caatcttttg ccactccctc cagagaatga ggaaaggcct 180
ttagaaagat atgatcttct tggacattag ggggcttcat ggtggaacaa acaatatgga 240

actccttaag atgtttatga ggatcttcac ctgcaagacc atgaaacttg ggcaacaaat 300
gtattagtcc aatcttgaga acatatggaa caccctcatc aggatattga atgcaca 357

<210> 17676
<211> 370
<212> DNA
<213> Glycine max

<400> 17676

agcttttgac tgactatacc aagctctagg aaccagggac ggagaaagat ctatatatag 60
gcttgctaag ggtagagaga ggaagactag agatttggat caagtaaagt gtgttaagga 120
tgaagaaggc aaagtcttag tgcataaaaa agatatcaag gaaagggtga aggtgtattt 180
ccacaactta tttaatgatg gatattggata tgactctagc agtctagaca caagagaaga 240
ggaccggaac tataagtact atcgtcggat tcagaaacag gaagtaaagg aagcgttgaa 300
aagaatgagt aatggtaagg cgggtggggcc agacaacata cctattgaag tgtggaaaac 360
tcttgagat 370

<210> 17677
<211> 415
<212> DNA
<213> Glycine max

<400> 17677

cgcgttttat ccatggactc ctatggaggc gagcttcttc atactcatct tctccttgaa 60
gtggcgctct ctctctctct tacttataca ttccgctgcc attcatcttc caagaagcaa 120
aggaatccat tgatgaagag gatcctatgc ctacaagctc caatggagca tacatcatgt 180
ggatatcaaga gcatcttcat ctaggcgatg ttcttttggc tctctatct ttttgttccg 240
agaattctct ttaattacct gttcttcac ttactctcca tgtatatact ccattgtctt 300
gtggtttggt gctcgtaga gtagatcaa aacaaatcaa ccgattaaat ttacatcta 360
cacttggtca tgcactctta tgggtcatac ttttgaaatc tactcttgaa tcatg 415

<210> 17678
<211> 368
<212> DNA
<213> Glycine max

<400> 17678

agttttggct tcttgattaa gctcactgat gaacttcaat ggagactgcc agacaagagg 60
ttctgcagat gtaagattta gcaatgatgc acagggtcca tgtttgtgtt tcagagcaac 120
catatatggt atccgcctgc ataaacacac caatcaggaa ttcttataat atacaatgag 180
gaaaagatgc agggctaaac ataaaagcta tgaacccaat ctaccaataa atggccaaat 240
cgttaaatga ggaaagttgc aataggaaaa tgccagatat gagtacagga aagggcccat 300
caaaacaagg gatggaatta tcatatcaga gattctagaa taacacagat aaaataatca 360
ataaccaa 368

<210> 17679

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17679

tgttgtcaag cttgtgcac caataccctg atgaggatgt cccatatgct cttaaaactg 60
gactgatecca tttgcttcga aagtttcatg gccttgcagg tgaagacctg caaaaacatc 120
taaaagaatt ccatattgtc tgatccacca tgaaacctct agatgtccag gaggatcaca 180
tattttctgaa ggattttcct cattcttttag agggagtggc aaaggactgg ctatattacc 240
ttgctccaag gtccatcacg agctgggatg acctcaagag agtattctta gaataaatc 300
tccttgcttc tangaccaca accatcagaa aagatatttc aagaattagg caactcagt 360
gagagagctt 370

<210> 17680

<211> 407

<212> DNA

<213> Glycine max

<400> 17680

tgtgcgctct tggcactgcc atttgtttga taaattttga aggagacctt ttccggagat 60
ggattaattg atgatgacat acctgttagt aacagcatat ttatagctag ctgtatagaa 120
gaaaagggat gataaaggtt taaataaaaa ataagaatgt agaattatat tctatatata 180

acttaatgaa ataatgaatt ttatatgcag ataaaacgta ataatggtac aacttataat 240
 attattaaat agataaaaata tatagtcaaa aaattctgat atatttagac atcttaataa 300
 tatcaatacc ttattgagat cctcaatttc tctctattat ctgtttttaa cacatcatat 360
 taattattta tcttctcttt ttttagatct tttatttttt tttctat 407

<210> 17681
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17681

agcttatcaa aaggcatgcg aagtgggtgg aattcctaga gcaattccct tatgttatca 60
 aacaataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120
 tttctatgct tgaaacaaaa ttgattgggc ttgaatgttt gaaaagcatg tatgaaaatg 180
 atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggcttcttta 240
 gacattaggc tttcttttca aagaaaacag atgagtgaat aggcaattta gtccctgaga 300
 ttgtaaccac tttgcatatt agtccctgac ttanattnta attcataata gtccctaact 360
 ttacataagt 370

<210> 17682
 <211> 361
 <212> DNA
 <213> Glycine max
 <400> 17682

agcttttaaaa gtttggctaa gattatgtta aaacataagc acttagacaa tgaatgaaag 60
 ctggagttgc tgcacatgat gtccaacgtt atgtcaaaga ataagatcgg gctgcacaat 120
 gcacaaggca agatgaaatg tcaaatgaag aattgaagct gcaggattca cgatgtcggg 180
 tacaatgtcc aggacatcct gctcgaaaat actggaattg ctaaaagcat tgaagctgca 240
 ggatccacga tgtctgatac aatgtccagg acattctgcc cgagaatact ggagttgctg 300
 tactatgcaa gattaaagtc aagtagtgaa gctgcaggat ccacgatgtc ggatacagatg 360
 t 361

<210> 17683
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 17683

tcaagagatc atcctctcga caacattatt gttgatattt tatatgggca acaactagac 60
 actctcttaa agatttatgc aataatatgg cttttgtatc catgattgaa cctaaaaata 120
 taaaagaagc cataatagat gataattgga tcattgccat gcaagaagaa ctaaaccaat 180
 ttgaaagaaa caatgtgtgg aaattagtag aaaaacctga aaattatcct gtcataggaa 240
 caaaatgggt ttttagaaat aaattagatg aacatgggtat aattattaga aataaagcaa 300
 ggtttagtagc aaaaggggtat aatcaagaag aggggaataga ctataaagaa acatatgctc 360
 ctgttgcaag attagaagcc attagaatgc ttttggcata tgcattccata 410

<210> 17684
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17684

tctaaactnt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60
 tcttaagaag ggggggttga attaagatat tacaactac ttccccaatt aaaattctat 120
 ttcactttct attcaagtta taaattccct taataatgaa cttcttaaatt attgattaaa 180
 atagaaccaa ttgaatatga atataaaaaca atgataaata aagaagttaa aggggaagaga 240
 aagtgcaaac tcagatttat actggtttgg ccacaccctt gtgcctacgt ccagtcccca 300
 agcaaccgcg ttgaaagttc cactatcttg taaattcctt ttacaagttc taaacacaca 360
 aggacaatcc ttcctttgtg tttagaatta caacaagaga ccttcggtct cttaatccc 419

<210> 17685
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 17685

cagcttctaa actttatata aaaatgatgc tctgatacca cttgttggac aagtggcctc 60

aaatatctta agaagggggg ttgaattaag atatcacaaa ctatttcccc aattaaaatt 120
 ttatttcact ttctattcaa gttataaatt cccttaaaaa tgaacttctt acatattgat 180
 tcaaatagag caatttgaat atgaatataa aacaataata aataaaggag tttaagggaa 240
 aagagattgc aaactcagat ttatactggg tcggtcacac ccttgtgcct acgtccagtc 300
 cccaagcaac ccgcttgaga gttccactat cttgtaaaag cctattacaa gatctgaacc 360
 acacaaggac aacccttcct ttgtgttcag atttctttac aacaagagac cctc 414

<210> 17686
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 17686

agctttttaga aagcttcgat gtagagtgtg tattgttttt cttccatgct tcagttgtac 60
 atagcttgtg tcttcttcat agatagggca tgcattgatg cccttaacac tatatccact 120
 caaattcctg tatgctggaa agtcattaat ggtacaaaat agcattgcac tcaacttgaa 180
 tgacttattt cgatacccat caaacataac aacccccctg tcccacaact ttttcaagcc 240
 ttcaatcaag ggactgagat aaacatcgat gccatttcct ggttgtcttg ggctcgatat 300
 catcatagac aacatcatgt atttttgctt ggccaagcat tccatcgcaa tttctctgat 360
 ttgc 364

<210> 17687
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 17687

ttttcaatct tgtggcacct ttcattggacg aagaaattca gaaggcaatt tttaaagctg 60
 cagcgaagtt ttttatgaag gaaggcaatt cacataagga ttgcatggat taaatggaaa 120
 tcggatatgct taccaaaaaga aaagggtggc ttgggcatca aggatattga aacattcaat 180
 ctgcgactac ttggaaaatg gaagtggcaa ttaatgcaag aaaatggtga gctgtggacc 240
 agagtcttga aatcgaaata tggatggatg aggaacattg aagaaacagg aaactcagca 300
 aagcaatctg tttcgtggat ggatgtaaaa cacactttt 339

<210> 17688
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 17688

tcagaattca atttcgagcg tctcaataga ttacgggact caatcagaca tccgagcaaa 60
 acgttattgt cgtttggatt agctcagagc ttcagaattc aatttcgac gtctcgatat 120
 attacgggtc tcaatcagac atctgaggaa aaaagttatt gtcgtttgaa tttgctgaga 180
 gcttcaacat tcaattttga gcgtctcgat gtattacggg acttaatcag acatccgagt 240
 taaaagttat tgcgtttga atttgctgag agcttcaaca ttcaatttcg agcgtctcga 300
 tattttacgg gactcaatca cacatccgag taaaaagtta ttgctgtttg aatttgctga 360
 gagcttcaac attcaatttc gagcgtctcg atgtattacg ggactcaat 409

<210> 17689
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 17689

atgaaatagt atcttccctt cttgccacaa tcttgttga ctacgagcat gaagagctcc 60
 aatgaatgtg atgtcattat ggatgacccc tagtgcttcc atatcttcag agatgcaatg 120
 ctgcctcacc atgaccatgc atggcgaaac cagatatcat ggcattttac attgaaacat 180
 cacgggtccat ggccgcagca agcaaagcat ctatgtctac acacttggca tacgtgtcca 240
 ccaaagaagt cttaagaata ataattccct taattccttg cttgtctatg taagaatgga 300
 tccacttacc catttcaagt gat 323

<210> 17690
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17690

aaaactcag cnttcgagaa attcaaacgg ccataactgt gactcggat ttgcgataca 60
 tgcacattaa atatcgagac gctcgaaatt aaacaacgga agccctcgag aaattcaa 120

ggtcataact tttcactcgg aggtccgatt caagcatata atatatcgag acgctcgaaa 180
 ttgaacaacg gaagccctcg agaaattcaa atggtcataa ctattcactc ggagggccga 240
 ttcatgcgta taacatatcg agacgctcga aattgaacat cggaagccct cgacaaattc 300
 aaacgggtcat aactattcac tcagaggccc aagtcaagcg aataaaatat ggggacgctc 360
 gaaattgaac aacagaagct gtcgaaaata caaatggcat cactattccc tcggaggccc 420
 gatcgagcgt ata 433

<210> 17691
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 17691

tctaagaata gccttgataa ctctaacatt atccatataa gcttccccta ttaagattgt 60
 atcatccgca aactgaagca tgtttactgg gaccttattc ttctctacca aaaagctgtg 120
 aaagaagttt gtagagactg cttccctcat caaacctgat aacccttcag cagccaaaac 180
 aaataaaaaa ggggccaaag gatccccctg cctcagacct ctttgaggct taaactcctc 240
 agttggacta ccatttacaa ggatggatat tgaagctgaa gaaaggcagc ctttaacca 300
 accaatccac ctttcatgga accccattct cctcaacata tagaaaataa attgccagga 360
 cacagagtca taagctttct caaagtccac tttaagcact aaacacgatt tcttttgcct 420
 cctagcctcc tcaacaacct cactagcaat cagaac 456

<210> 17692
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 17692

gtgttaacga gatatttgtg gataagttct tgattaagcc taacaacaat gacatcaatt 60
 gcctgtaca aattggagag gcgcggtggg ttccaagttt gttgggttct attgattgca 120
 tgcattggga atggaaaaat tgtccagttg catgactaga ctaatatcgt aaaagtgatc 180
 attgcaaacc cacattaata cttgaagtcg tcgctgatcg aggccgtacc cgaatcaa.. 240
 aaacattata aatgtagtat ctatgaagtg atcctatgtc gtctcccaac gagcaatgat 300

ctactcaacg ttcataacaa atagtaatag aacagtacct aattgggggg ggtgtatgct 360
 ttcggatatt aatagccatc caatttgagt tagaaaataa ccatttacia catgttggtc 420
 ccct 424

<210> 17693
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17693

tgaggganaa cttgatgcct tggccaacct agtaactcat ctggcaatga ataaaaaatc 60
 tgcacctgtt gcaagagtcg gaggtctatg ttcttctgaa gatcaccata cagatctttg 120
 tccttctttg cagcaatttg gaatcaatga gcaacctgaa gcttatgctg caaacattta 180
 taatagcccc ctcagcagca aaaccaacaa cagcaaaata attatgatct ttcaagcaat 240
 aaatacaatc caggtttaag aaatcatcca aaattgagat ggacaagtcc tccacaacaa 300
 caacagcttg tccttctttt ctagaatgct gctgggtccaa gcaagccata tgttctctct 360
 ccaatacagc aacaacaaca gtcacaacta agacaacaag caacggaggc tccttctcaa 420
 ccttcttag aagagttagt 440

<210> 17694
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17694

ntanaggatg ttntatcagt acaaaaatat atgtgttttc actggtaatt gattacaaa 60
 tattgtaatc aattactaga gatacattac cagagacaaa ttacataaag gctttttcaa 120
 aaagaagttt ctcttttgaa atttgaattt taaatgctgt aatcgattac cacttgatg 180
 taatcgatta cctgtgatga aatttcagaa gttaacattg aaaagtcgtg acctttcaa 240
 acataactat gtaattgatt accaagaagc tgtaatcaat taccagtgag agaatttttg 300
 aaaaatattc tgaaaagtca cgtgtcttca aaagtttttg aaaagccacc aaggacctat 360
 aaatacgtga cttgtctacg aaaaacatta gagtntttca ttagaaccta agtgacatat 420

tctctc

426

<210> 17695
<211> 245
<212> DNA
<213> Glycine max

<400> 17695

taatattcga gcgtcacgaa tattacaggt ttactcagac ttccgagtgg aaagttattg 60
ctgttcgaat ctgctacgag cttctgttct aaatttcgag cgtctcgata tatcacggga 120
ctcaatcgga cttgcgagtg aaatggttatt gacgtatcga atttgctacg agcttcggct 180
ttgaattact agcgtctcag tatattacgg gactcaatcg gacttccgag tgagatgtta 240
ttgtc 245

<210> 17696
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17696

tgaaggcaca ctggatgcat tggttaactn ggtaaccag ctggccttga atcacaaatc 60
tgtacctgtc gcaagggttt gtggattgtg ctcctttgct gaccaccata cagacctttg 120
cctttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180
caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctctc 240
cagcatcaga tacaacctg gatggaggaa tcaccctaac cttagatgcg ccagccctca 300
gcatcaacaa cagcagcctg ctccttcctt tcaaacgctt gtgccccacg ataactatac 360
at 362

<210> 17697
<211> 448
<212> DNA
<213> Glycine max

<400> 17697

tgtccattat actcacattt ctggttcctc aaattcttta taaacgcctt agtgacctct 60

ggtctcacat atttaggtgg gtgcaagcca ccccttgacc agtcaacca agtcaaactc 120
 ctattagaat tcttctccgg aaacattatg ttaacaaatg ttggcaagta gtgttcatca 180
 acatagcatg gtctcgtgca gcgctcttga aaaattggga agtaggtttt gtctgacacc 240
 acttctaagg caagttctct gtccatttgc aaccattgag acccttttct ccattgcttg 300
 aggtgacca tatgggacat gcgaggggtg taacgtccac gtgcaactag actatcttca 360
 tcataagcca tcacatagct gtgggtggag tccatcacat atgagtagat tggtgagaag 420
 ttgatagagg gatgcatgat ctgatatc 448

<210> 17698
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17698

tgtaacctat tatgactntg acgaagtgc acggtattc tatggccatt gaattttttt 60
 ccttatcttc caatgctgcc cttaccgccg ttagcccttg gccaaaagaa tttgagtatc 120
 atatttataat gtttgataat tattattatt gttattattt tttctcttga tgcacgtaaa 180
 agagaataac ctaaactttt atatatgcgc attcaaatta aaactaacat acataaatgg 240
 tcaattaatg gatcttacat aatgactcgt tttcctttgc ttctttcagg agagatcatc 300
 atcaattgat atggaatcat gtgtgcctcc tggatttaga attcatccca cagaagagga 360
 gctcgtggtg tattacctca agaggaagat aaactcgcta aacatcgatc tagatgttat 420
 tg 422

<210> 17699
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17699

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 tctctaaggg ctaccgtgtc tacaacttgc aaactaagaa actcgtcatc agtcgagatg 120
 tgggaagtga tgaatatgct tcttgaatt gggatgaaga aaaagtggag aagaaggttc 180

ttatacccg c tcaactacct caagaagaag ctgaggaaga agaccacggt gaaccacctt 240
cacctccacc acaacaacaa gatcaagaac tatcatcacc agagtctact ccaagacgag 300
taagatcttt ggtggacata tatgaaacct gtaacttggc catacttgaa cctggaagct 360
ttgaagaagc gtcaaagcag gaagtatggg tcaaggcaat ggaagaagag atgcagatga 420
tcgagannaa caacacatgg gagttagtaa atcgt 455

<210> 17700
<211> 423
<212> DNA
<213> Glycine max

<400> 17700

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ttttttataa tcattgtaca caaaaggga ataaaattaa ttgatgtat aatacttttc 180
aattctaaaa taagtatcgt cctaattatt ttacctaaat aaagaaaaat tattagaaat 240
attagaaaga aaggtccagg aaaatgatct ctttattccc atgacaaaat gtgtttatat 300
acacatattg tattacaatc gtgatcctat aattaagtta ggactaatta cactaaatat 360
agaaatgaac atatatggaa agaattggtc ttgatagcta cacaccggca gatactaaat 420
cat 423

<210> 17701
<211> 351
<212> DNA
<213> Glycine max

<400> 17701

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cccgctccg aaggcctgaa aaatgtgacg aaactcgggt cccttgacgt acgtgtggaa 120
attcttgctc agcatgtggt ggacgttgat ggggtcgcaa gtgaccaa atgtccatgtt 180
ggtaaacc aa ggtccaatga actcaccagt gccaccatgt cgttgcaaca cctgagatga 240
ataatcatgg gcacgccata aattgaacag taattgtggt agcatgccaa tgatacggta 300
ttctgtccaa atgggttggt gcaacatcgt ctccatgga agaaatattg g 351

<210> 17702
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17702

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 ggtaccttgg tgattagatt gtttctccca tctctgatgg aaagattgaa atctttcatg 120
 tgaatatcat agcctttttc gagtaattgt cccaaactca aaatattgat cttcatatct 180
 gggacatagt agacatttga tatgaattca tgtcttccaa ctttcaaacg aattaagatc 240
 taaagcatct atagtagaca ttgaaatga attcatgtct tccaactttc aaacgaatta 300
 agagtcttat aattatcacc aaatgaaaca ctattctaaa gcattctatag tcaagtatta 360
 ttggtgacta tggcgacgat aatacattaa tgtntttgta tgagtagatc gactaatgac 420
 cacgtctcat aggtcatgga ta 442

<210> 17703
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 17703

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 agcatagacc aagggtataa gttccaataa gatattctaaa aatgcattta ataacagata 120
 aaaggacttt ccttggttct ttttgaaacc ttgcacataa gtaaacta aacattatat 180
 caggcctata cgctataagg tataacaatg atccaatcat tgctatttat tgggttttgt 240
 ccaacttttt tagattcttc gtccaaccct aagtattctag ttggatgtat aggtgtctcc 300
 atttcttttg cattgtccac gttgaacata tttagaagtt ctttcatata cttggtgatg 360
 caatcctacc ccgcaggcca ttgggtagaa gactccaagt agattggcta gagat 415

<210> 17704
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 17704

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gatgataatg cccaagcctt ttgtgccaga tttctgtgtg attctctatg agagagaaaa 120
cagcttgctc cttcttcaat ggatttagag caaaactntt tcctttcatt ttcacctcga 180
agatttcttg accagctaca tctttaatta agcaattttt gttttcaaata acaactttta 240
atcctcgctt aattagttgg ctgacactta ataagttttg gtcaatttct agaacgaata 300
ggacatcaac aatacatctt gtgcctgcag aacttgatgat tgcaactgtc ccttttcctt 360
tgactgagat ataatcacca ttaccaattc tgactctggt gactttt 407

<210> 17705

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17705

ctttttccat ggcttcctat ggtggttata tntntcttga ctcatcttct ccttgaagtg 60
gcatctctaa tcacctttcc tcctactcca ttctgcttcc attgatcttc aagaagcaaa 120
ggactccatt gatgaagaag atccaaggcc tacaatctcc acatggagct acatcatgtg 180
gtatcaagag catcttcac taggtgatgt tcttttgctt cctctatctt tntcttcggt 240
taattcactt taatcttcat tttcttctcc atgtatctcc tccattgtct tatgggttgg 300
tgttggttat agtagattca aaaaaataaa tcgattanat cttagatcta cacttggtct 360
tgcatttcta tggttcaaata tntatagatc aactcttgaa tcatgntttt gtgttgattt 420
taagggtgat ctttttt 437

<210> 17706

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17706

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agaagaatgt ggcatttacc ttcggtgaaa aacaagagca agcctttgct ttgctcaagg 120

aaaagcttat taaggcacct gttctagctc tttctgactt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggagtg ggagttggag ctgtattgtt acaaggtggg caccctattg 240
 cttatttttag tgaaaaaatt catagttccc ccctcaacta cccacacctat gataaagagc 300
 gttatgcctt aataagagcc ctccaaactt gngaacatta ccttgtttcc aaggggaattg 360
 tcattcatag tgatcatcaa tcacttaagt acattagagg gcaacacaaag ttacacacaa 420
 ggcatgcaaa at 432

<210> 17707
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 17707

agcttctatt ttagtgtagc agataaccac gggcccagcc aagctatctt ggaagaagtg 60
 cagcaacaac ttctcatccc tggaatgcga ccctatcttg cgacaatata ttttgagatg 120
 gcacttagga caagttgtcc ctttgtacct atcgaaacca ggtaccttga atgatgcaat 180
 cctaccccc aagggcattg gatagaatac tccaagaaga ttgggcaaaa gatgcaagag 240
 aaagccctag ggttctctta agccttatgg tagatttcag gcccatggac taagtatgag 300
 cccacttatc tttgtacata ttagattaag gcttcattaa tattgggtct tgaatttatg 360
 gctctataat atatgtaggg taccctat 388

<210> 17708
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17708

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 tggatccctc cctgtatgtg attgggagaa ggacaatcag ttagttgatt atatcaaata 120
 tttgattcaa atggcaagta tggctaaagt ttattcatca tgaagcttac caaaaagaat 180
 gcgagataga caattatttt ccatgtactc atatatcagt attagctggt tgccctccac 240
 acaacatcca taaagcttaa caagattggg atgttgaagt ccagatatca gtcccatctc 300
 attcacaaac tcacgatttc cctgtttaga ttttgaagaa agctgctnta ctgctattat 360

tgtaccatct gataataggc cctgcatcat gaac

394

<210> 17709
<211> 322
<212> DNA
<213> Glycine max

<400> 17709

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cccaaataca aacctcaaaa gtcacgacc tctcaaaca tagcaacgaa ctctacggca 120
acctccctgc ctggetccct tctctgcccc atttcttcca aatctccttc gacgcatacc 180
gcatctccgg ctctttctcg aagtcgtca caggatgatg acgctcaccg acaaccgcct 240
taccgggaag atttcggcga aactggcgaa gctggacttg aagggtgcgt acttgtgtca 300
taatatgctg gaggtgatg ct 322

<210> 17710
<211> 395
<212> DNA
<213> Glycine max

<400> 17710

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ctaaaaaaaa acataaaatt tcgtataagt aatgtacaaa tccaaaaata attgataaac 120
aaaatcatat tgaattcaag tcgttaaagc acaaagtata tataaaaaaa gagcataata 180
ttaaaaaatg tatagattag gtcttcagtc ccatagetta caaatctatt ttaagtccaa 240
gcctataaac gaaataaaat aaaatttgga caaataaga taagatttga tgaaatataa 300
tctggataaa ataaaatcta aattgaataa aatctggata agataagatt tgataaaata 360
aatattatta ttattattgt tagttaaaca gttat 395

<210> 17711
<211> 385
<212> DNA
<213> Glycine max

<400> 17711

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gaaacttcca gaattggccc atatgctttc gaagatatga taaagatggg taaggatgct 120
 ggagaggagc ttctttctcg agcgggacct ggctttttca gtcgttaaca atccaccaca 180
 ttaaattggcc aacacaatac ttgatcaggg aggttgcacg gtcagctctt tcagttgact 240
 gcatcccaag tatgtctatt cttcaacct gttgtataga ctaaaatatt cagctgagtt 300
 ggaaaaataa gccactcatc atgggtccaat tgggtgtatct taagggtgatt ataaagccaa 360
 atttttgtat tgggtgtgtgt attat 385

<210> 17712
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17712

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 tttgattcaa atggcaagta tggctaaagt ttattcatca tgaagcttac caaaaagaat 180
 gcgagataga caattatctt ccatgtactc atatatcagt attagctggg tgcctccac 240
 acaacatcca taaagcttaa caagattggg atgttgaagt ccagatatca gtcccatctc 300
 attcaciaaac tcacgatttc cctgtnntaga ttttgaagaa agctgcttta ctgctattat 360
 tgtaccatct gataataggc cctgcatcat ga 392

<210> 17713
 <211> 397
 <212> DNA
 <213> Glycine max
 <400> 17713

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 tgttgtagtg actggctgct taactggaag tgacaatctg aaaaggaagt ttactcagtc 120
 ctttttctta gctccccagg acaaaggcta ctttgttttg aatgatgttt tcagatatgt 180
 tgatgagtat aagtcagttg atattgagtc tgtgcctgca aacgatgctg ctgatgaaag 240
 tgctccaaca gatgcttttg tccccgagcc tggtaaactt ttacatctgc tggttatata 300

tgatcgtatt cctgttgttt ttcattttct tcctctaaca ttttgcttat ctttgtgtaa 360
 cttgtaagtg tgagttttga aacttttact ttgatta 397

<210> 17714
 <211> 334
 <212> DNA
 <213> Glycine max
 <400> 17714

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 gaaaaaagtt attgtcattt gtatttgctc agagcatcaa cattcaattt cgagcgtgtc 120
 gatataattac gggactcaat cagacatccg agtaaaaagt tattgtcgtt tgaatatgct 180
 cagagcttcc gcattctatt tcaagcgtct cgatatatta caggactcaa tcagacatcc 240
 gagtaaaaag ttattgtcgt ttgaatttgc ttagagcatc aaaattctat tttgagcgtg 300
 tcgatatatt atgggactca atcggacatc cgag 334

<210> 17715
 <211> 390
 <212> DNA
 <213> Glycine max
 <400> 17715

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 aggttggatc aaatggagaa tagagatcat aatgaagaag aaaggaggag aagaggggaat 120
 gatggtgttc ctagacaaaa ccgaattgat ggttttaaac tcaacattcc tccatttaaa 180
 ggaaagaatg atctggaggc ctacttggag tgggagatga aaatagagca tgttttctca 240
 tgcaacaact atgatgagga ccagaaagtg aagcttgctg ccacggagtt ttccgactat 300
 gctcttgtgt ggtggtacaa gcttcaaaaag gagagagcat gaaatgaaga gtccatgggt 360
 gatacatgga cggatatgaa atagatcatg 390

<210> 17716
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 17716

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 tataggttgg acctcccata agagtatgca gttagaactt tataggtgga gctaatactg 120
 aggagcatga accaacagat ttgaggtcaa atcctcttca aaggggagtg ggtgatgcaa 180
 tectccctag gaagggacta gtcaccaaag ccatgagcaa gaggctcaa gaggattggg 240
 ctagagctgt tgtagsagge cctaggatto ccatgsacct tagggtagat ttctyagccc 300
 atgggccatg ttgtgtccac ttatctttgt acatattaga ttaggatttc attatttttg 360
 ggcccttgat ttagggctcc ataataat 385

<210> 17717
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17717

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 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgtg gatgatttct 120
 ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180
 agttgagtct aagacttcaa agagaaaaag actgtgttat caagagaatc angagtgacc 240
 atggcagaga gtntgaaaac agcaagttta ctgaattctg cacatctgaa ggcattcttc 300
 atgagttctc tgcagccatt acaccacaac aaaatggcat agttg 345

<210> 17718
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 17718

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 gagtgtatca tgtgttggat caagtggcct cagaataatt aagaaagggg ggttgaatta 120
 attattacta gacctttact aattaaat tacctttctt aggcctttac tataatgtta 180
 agaaaataaa gaacagaaat agaaacttaa ccaaaagtaa aagagataat taaagtgcac 240
 agcggaaatt aaaagagtag ggaagaagaa gacaaacaca caagagtttt atactggttc 300
 gacaacaacc cgtgcctaca tccagtcctc aagcaacctg cggtccttga gatttctttt 360

caaccttgta aaatccttta caagcaaa

388

<210> 17719

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17719

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cctctatcat atctaataat ttttacatth atgtctaatt gcctttttac ttcattgtag 120

taaatthcta aagcatccat tgcctaagat atctcgggca gtaagtagac ataaccgtaa 180

tgtgaataat catcaataat ggtgataaag tatcattcct tttcgaaaga actaacatca 240

aaagatccac aaatatcagt atgcacaatt tcaagaagct gagtgccttct ttagctcct 300

ttctttgtat gttttgcttg ttttccctta atacaacca cacaatat tagatccata 360

naatctagat aaggaagaaa ttgattcttt a 391

<210> 17720

<211> 399

<212> DNA

<213> Glycine max

<400> 17720

agtttacata tattcccat gtgataatct gaacaagaga gaattatggg aagcactaag 60

ccagctaaga caccaagatc ctgagggatt atggtgcttc ttcggagatt ttaacagcat 120

tagacaccag tccgagagag aaggggtggc tcacaggggt atggaagcaa acaacataac 180

tgattttagt gaatggctag ccgacctaga ggtagaagaa atacctagtg tggggagaag 240

attcacatgg tttaatccaa acgggactgc aaagagtaaa ctagatagat tttttgtctc 300

tcatgaatgg ctcaacaaat ggccaggctg cacccaattc atcttgatc ggaacttctc 360

ggaccattgt cccatactta tgagagctaa gaacattgg 399

<210> 17721

<211> 168

<212> DNA

<213> Glycine max

<400> 17721

ttgctttatc atctgaccac tttcagggag ctggtgctac ctctcattga cttgatgggg 60
cctatgcatg ttgataacct tggaggaaag atgtatgcct aggcattgtgc ggatgatctt 120
tccacattta cctggggtaa ctttatgtca gatagatctc acaccttt 168

<210> 17722

<211> 357

<212> DNA

<213> Glycine max

<400> 17722

agcctatgca tccggaattc ccggatgagg acatcatggc cttgttcgag gaaaagttgg 60
acgaagatcg ggacaaatgg actgtatggt ttgacggagc gtcaaacatt ctatgtcatg 120
gcgttggggc agtgttgatc tctccggaca atcaatgtgt acctttcaca gccaggctag 180
gattcgactg caccaacaac atggccgaat atgaagcatg tgccctagcc gtccaggcag 240
caattgactc cgatgtcaaa ctactcaagg tgtacggcga ctcagcgttg gtaatccatc 300
agctgagagg agaatgggaa actagagatc ccaagctgat accctacaaa gcctaca 357

<210> 17723

<211> 392

<212> DNA

<213> Glycine max

<400> 17723

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ttataaaata attaatgtca ttatatataa cactaaattt tttaatgtat atttaattgta 120
catataagtt tacataatat atattgtgac aattaatttt gatctaataa tttttttaca 180
tatataaatt tttattaaac ttgtaattct tatttaaaaa atatattggt aaatcgaaat 240
taattataat aagggtcaaaa acagaaattt atttactata ataattataa aaaaactataa 300
ctaaatttat taattttttt aatcttttac taaaaatttt gagtgataca gattgacaat 360
ccgtatacgg attataaatc tatatgttta tt 392

<210> 17724

<211> 394

<212> DNA

<213> Glycine max

<400> 17724

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cactctctac acttgcagaa atttattaaa aatcatgaat ttttatggat ctccacttctt 120
atttaattgag tttctctcct taatttggag tttttaacaa attttaatca ataacaaact 180
acgtgttaaa aagagtgtgt tgctaatoct tctcagatta tcataatcaa tttattgggt 240
acaaacattt ttgtggatca ggtgtggctg gagaagcgtt atgttgggtc acgtcacaca 300
tctgaatggg tcaatacagc aggaagaaat gttaagacgg ggcttattgc aagtgtcatt 360
gtgtctcacg taatggattc aaatagcctc atag 394
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<210> 17725

<211> 384

<212> DNA

<213> Glycine max

<400> 17725

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gctcgatttg atgtccctgt gaataacaac ctgggcccaa ccgtggtgaa tgtagctaag 120
cccctctgcc acgtagacaa ggatacgacg gcgttgctcc caccctaaag acttctccga 180
cttatctaaa acccacttgt tgagactccc gttgggcatg taatcataaa ccaacataag 240
ctcgctcccc tttctgcacc accctctcat tagaaccaag ttcttgtgct gaagcctacc 300
catgcttgaa atctcctcca tgaattcccg caaccctttg cttgaatagt ggttcacgca 360
ctttaccgca atttgcgtat ggg 384
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<210> 17726

<211> 371

<212> DNA

<213> Glycine max

<400> 17726

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tagcttagag agattccga tctgagaggg tactgttccg ttggcaacat atctcatgtc 60
aagatacacc aaatttgaga gattcccaat ctgaggagga atcttccac ggaatccagt 120
atgagagagg ttgaggtgag tcaaggaagt cattgtcca aggaaagaag gaattgacat 180
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accttctcca agaaatctat tgccgctcaa gtccaagtaa ttcaaagtct ttaaatacagc 240
 caaacaagga cttatctctc caccaaagct ccatctctgg taagcttccc aatcgaagtg 300
 atagttgccca tcatataaag cagaatgtga agtggtgagg tgaagctgaa gaagatggga 360
 agtgacgttg t 371

<210> 17727
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17727

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 gtcctttacc agctgggatg acctcaagaa ggtgttcttg gagaaattct tccttgcac 120
 taggaccatt gccatcagaa aagacatttc aagcatcagg caacttagtg gagaaagctt 180
 gtatgagtac ttggaaagat tcaagaaatt gtgtgcaagc tgcctcacc accagacttc 240
 tgagcaactc gttcttcaat atttctatgg ggacttanca acatggagag gagtatgaat 300
 gatgctgccca atgggtggaac tcttggtgat atgaccactg ctgaggctag gaatttgatt 360
 gagaagatgg cttccaactc ccaacaattc agtgc 395

<210> 17728
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 17728

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 tgtatgctta agaaagttat gcaaaatgct ttttttttta aaaaaatggg attccaagtg 120
 tgataaaatg aatattgggt catgatatga gtatttatat atagtatgga gttaatttta 180
 tgctaataatc atgcacttca cattcatatg acgattttga tgtggagatt gtaaaaattc 240
 aaggagtggg atgtcttact atgcttaaca aactattgat ggattcataa gtgtgatgaa 300
 tatatgaatg gttaatttat gatatgagca tttgatgaaa tattgatata atgaatagat 360
 aattatattg ataagataa 379

<210> 17729
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 17729

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agcttgatag gtggaaggag atgtatagaa ggagcacgaa attttgtgcc tcaattgagg 60
tttaaacttt gaagtgtaat tctcaaata tcaaagttta aaaaatgcac acacatgacc 120
tctatttata gcctaagtgt cacagaaaat tggagggaaa tttgaatttc tatttaaatt 180
tcacttgaat ttgaaatcga atttgtggag ccaaaatttc actaattatg attagtgaat 240
tttagctatg attcaaccca ctaatccaag atcaagtcca agattctcca ctaagtgtgc 300
ttaagtgtca ggaggcatgt aaagcatgaa ggacatgcac aaagtgtgac tatatgatgt 360
ggcaatgggg tgtagcaagc aaatgctcac ct 392
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<210> 17730
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17730

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cctcctctat atcaccatta agaaaagtca ttttcacatc catttgttgc aactcaaggt 120
caaaatgagc agctcatgcc aagataatac gaagagaata tttcttagat actagacaaa 180
aagtctctct atagtcgatt ctttctttct gagtaaatec cttagcaata agtcttgcc 240
tgtatctctc aaagttgcct aatgaatccc ttttgggtct aaagatccat ttacatccaa 300
tggcctttgc ccattaggc aactctacaa ggttccaaac tttgttactc tgcattggaat 360
tcattctcat cttcatggca ttataccata natntgacac tttaaac 408
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<210> 17731
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 17731

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tgttttagaaa ctttactgtt ggaaacttgg aaaagcaaag taaagaccat aaataatacc 60
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agaccctaaa gcttaattta agaaatagat tctgaaatcc attcaaagaa gacaaaacta 120
gaatgtgaaa gtccaacaat atatatagat aaaattacc atctcaactt tgaaaataaa 180
ttaagaaaat aaaaagagga aactagctga ttttcttgct ttgccacaca agtataaaaa 240
agcacagaaa caagggtatā aatatagaat atataactaa aatgtagcaa tataacttac 300
aattaaogtg attgctcttg tatcttcato cctcattctg ttaccatatt gtagatcatt 360
gtgacaaaaa 370

<210> 17732
<211> 390
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17732

agttttattc aagacaaaaga aatcaaagat attcaagatg gatgatcaag acagtctcta 60
gagtcttagc aatagaatat aaataggaag ggaattccaa ttgaagtagc aaaagggttg 120
gccaagaaat ttaagttaaa agtcttttt caagagattt actctctggt aatcgattac 180
gacagctatt aaaatttgaa ttcaaaattt gcattgagta atcgattaca catatatggt 240
aatcgattac cagcaattat tgaacgtttt aattcaaatt ttaaagcttg taatcgatta 300
cacacatact gtaatcgatt accagagtag attttcagaa aatattctca atagtcacat 360
ctttntattt ggttcttgaa tggctatcaa 390

<210> 17733
<211> 327
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17733

tgtttgcaaa ccattgattt ggtagaagat tcaaacccta gaagttgttg catgcacacc 60
tctcttcaa gaatgccatt acgaagtgg aaccataag tgatagctaa ggagagaaga 120
agtcttacta ttatggactt gataataggt gagaaagtct ctatataatc aattctatac 180
tactgatgaa atctcttggt cactaatttg gctttttact ttntgaccga gccatctagg 240
ttttctttaa ccttgaaaat tgacttacag tcaataggaa ctctattatg gggcaaggga 300

acaagcaacc aagtgtcatt tttaatc

327

<210> 17734

<211> 414

<212> DNA

<213> Glycine max

<400> 17734

tgaaggcaaa ctggatgca~~t~~ tggttaactc ggtaatttag ctggtcttga accataaatc 60
tgtacctgtt gcaagggttt gtggcttgtg ctctctgtct gaccaccata cagacctttg 120
cccttccatg cagcaacctg tagcaattga gcagcccgaa gcttatgctg caaatattta 180
caatagacat cctcaacctc agcatcaaaa tcaaccacag caaaacaatt atgacctctc 240
cagcaacaga tacaaccctg gatggaggaa tcacctaat ctgagatggt ctagccctca 300
gcaacaacaa cagcagcctg cttccttcct tccaaaatgc tgctggccca agcagaccat 360
acattcctcc accaatccaa caacaacaac agctccagaa acagtcaaca gttg 414

<210> 17735

<211> 287

<212> DNA

<213> Glycine max

<400> 17735

atcttgccgc cacggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
cccaaggcaa caagggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
caaatattga agaagatgag gaggtaacta tggctcgatt tottaat 287

<210> 17736

<211> 343

<212> DNA

<213> Glycine max

<400> 17736

tataatatat tattacgctc gaaattttac atcagtagct ctcgagaaat gcaaatggtc 60
ataacttttc acccggtatg ccgattatgg cgaatcacat atcgagacgc tcaaaattga 120

acaacggaag ctcttgagaa attctaattg tcataacttt taactcggat gtccgattca 180
 ggcgcatcac atatcgaggg gctcgaaaaa gaacaacgga agctctcgag aaattcaaat 240
 ggtcataact tttcacactg atgtccgatt caggatcata atatatcaag acgctcgaaa 300
 ttgaacatcg gaagctctcg atatagtcaa ttggatcatca ctt 343

<210> 17737
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17737

ntgatttctt ctgttccgga aacctttctt ttctcatgtg caccctaaacc caatctccgg 60
 gttcgaagac aaccttcttt ctccctttgt tggcttggtt agcatagctt ttacttttcc 120
 tctcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc tttgcttgac 180
 cttcttttatg cttaaaaaaca gaaacattag gcaaaagatc aagaggagtt agtggggttaa 240
 aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaacagct ctattgtaag 300
 caaattcaac atgggggttaa caagcttccc aagtttttaa gttattctc aaaactgtcc 360
 taagcaaagt tcccaaagtc ctattaacaa c 391

<210> 17738
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 17738

agcttgaagg taaactagat gccttggata tcttggtaac ccaactggcc ttgaatcaga 60
 aatttgtacc tgtcgcaaga gtctgtggtt tatgtcttct tgctgaccac catacagact 120
 tttgcccttc catgcaacaa cctggagcaa ttgagtagcc tgaagcttat gctgcaaaaa 180
 tttacaatag acctcctcaa cctcagcagc aaaatcaatc acagctgaac aattatgacc 240
 tctccagcta cagatacaat cctggatgga ggaatcacc taatctcaga tgggtctaacc 300
 ctcaacaaca acaacagcag cctgtctctt tcttccaaaa tgatgctggc ccaagcagac 360
 catacattcc tccaccaatt caacaact 388

<210> 17739
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 17739

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actcagctca acataaccac ttctgggtgct ggaactactt tacatggact tgatggggcc 60
tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgtgtgg atgatttctc 120
cagatttacc tgggtcaact ttatcagaga gaaatcagac accttgaag tattcaaaga 180
gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta tgagtgacca 240
tggctgagag tttgaaaaca gcaagtttac tgaattctgc acatctgaag gcatcactca 300
tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacaggac 360
tttgcaagaa gctgctatgg tcatgcttca tgccaaagaa cttacctata atctttgggc 420
tgaagccatg aa 432

```

<210> 17740
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17740

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tcttagtctc acctgatnga attgtggcta cttcatgcac tcttctaata acaatagcat 60
cacttctagc actaaattgc tgggagtttg aagccatctt ctcaattaaa tttctggctt 120
cagcaggggt catgtctcca agggctccac cattggcagc atctatcata cttctctcta 180
tgttgctgag tctttcataa aaatattgga ggagaagctg ctttgaaatc tgggtggtgag 240
ggcaactagc atataatattt ttaaactctt cccagtattc atataagctt tctccactga 300
gttgtctaata gcttgaaata tcttttctga tggctcgagg cctggaagca gggaaattgt 360
tttctaagaa tactctcttg aggtcatccc agctcgtgat ggaccttgga gcaaggtaat 420
at 422

```

<210> 17741
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 17741

agtttcccat gtttataagt tcttactcaa aactgtccta agcaaagttc ccaaagtcct 60
attaacaact tacatttgcc catcggttg agggtgacaa gaggttgaaa ataacaattt 120
agcgcccaec ttgtccaca caatcctcca aacatggctg aggaactcag agcccctatc 180
actaerbatg ctccctggca aaccatggag tctgacatc tccttgaaaa acaaatcagc 240
cacatgggaa gcatcatcaa tttttttaca tggaataaaa t 281

<210> 17742

<211> 337

<212> DNA

<213> Glycine max

<400> 17742

agcttcaaca ttcaatttcg agcgtctcga tatattacga gactcaatca gacatcagag 60
aaaaacgtta ttgtcgtttg aatttgcctc gagcttcaac attcaatttc gagcatctcg 120
atatgttacg ggactcaatc agacatccga gaaaaaagtt attgtcgttt gaattagctc 180
agaagttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat catacattcg 240
agaaaaaagt tattgtcggt tgaatttgc t agaggttca acattcaatt tcgagcgtct 300
cgatatgtta ccgggcttaa tcagacatcc gagtaaa 337

<210> 17743

<211> 398

<212> DNA

<213> Glycine max

<400> 17743

aagcttgagc cactaaacga cattaacgtt ttctcttatg tctgatcgag tcccgtaca 60
tatcgagacg ctcgacattg aacgttgaag ctctgagcca atacaaacga ccataacttt 120
tttctcagat gtctgattga gtcccgtaac atatcgagac gctcgaaatt gaatgttgaa 180
tctctgagca aattcaaacg acattaactt ttactcgga tgtctgattg agccccgtaa 240
catatcgaga ctctcgaaat tgaatgttga acctctgtgc aaattcaaac gacaataact 300
ttttctcgg atgtctgatt gagtcccgt aattatcgag acgctcgaaa ttgaacgttg 360
aagctctgag ccaatacaaa cgaccattac tttttact 398

<210> 17744
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 17744

aactcaagct tctctcdaat gagatgacaa tcaatctcta tatgctttgt cctcttatgg 60
 aagactgggt ttgaggcaat ataaagagca acctgattat cacaatacaa cttcatttgc 120
 aactcttcac aaaaccttaa ttcttgaaga aattgtttga tccacatgag ctcacatgta 180
 accatagcca tagatcgata ctacagcttct gcactggacc gagcgacaac agttttgtttc 240
 ttgcttttcc aagagattag atttcctcca atgaagacac aataacctga tgtaaattctc 300
 ctatccatgg gacatccaac ccaatcaaca tcacaatatc ctgatagtgt cgtactaccc 360
 ttggcttcat acaacaaccc ttgtccacga gctttcttaa catacctcag aatcacgcatg 420
 acaacat 427

<210> 17745
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 17745

gacctataaa actcagctta acccctttta aagaaggctt taatgcttat gaagatttaa 60
 caatcaattt aataattttc tttaaacgtg caagataaaa ttgattgcaa taaaataaat 120
 aagataaggg aagaaagaat tgcaaactcg atttatactg gttcggccac ttcattgtgcc 180
 tacgttcagt ccttaagcaa cccacttaag attttccact atctctgtaa atcatttaca 240
 gactttgaac acaccttggg attccttacc cttgtgttca agattttcac actccaagag 300
 acaccccgtc tcttgattac aactgagttt ctgagatgaa cagaaagatc tctctccttt 360
 agagtggatg atacaaattg aagatcctag aggaaatttc ctctttttaga gatgataata 420
 cagattgaag 430

<210> 17746
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 17746

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ttgttgatgg cttcttcctg tttcaagctt caattggagt cttgtctttt acagacttag 120
ttggacatct attgagtatg taaacagcag tgtagactgc ttcagcccag aatgtattaa 180
ctagtccctt ctcccttgagc atcaatctag ccatttccat aactttgcga ttctatctct 240
cggacactcc attttgttga ggagaatatg ctactataag ttgtcgtca atgccttcat 300
cctcacaaaa tctttcagac tcgcgagagg tgtactcttc gtcgcgatca cttcttagct 360
ctttgatcca tttccacttt gatttttagca aggccttgaa cttttga 407

<210> 17747

<211> 352

<212> DNA

<213> Glycine max

<400> 17747

actaagctgc tcggggatct actacgcttt agaacttggg atgctgccta gcaatttaca 60
ctaccacaga gaatgagcta ttagcgatag cttttgctct tgagaaattt cgatcatatt 120
tgcttggtac tcgagttatt gtttatactg accatgcagc tctgaagtac ctgttgaaga 180
aggctgaatc aaaacctata ttgatcaagt ggatgctatg gatccaaaag tttgatttgg 240
agatccgtga tcagagcggg tcacaaaacc tcatggctga ccaactgagt aggattgagc 300
gtgcgcctga agactcacc cttacggatg atttttcaga tgaccatttg ta 352

<210> 17748

<211> 321

<212> DNA

<213> Glycine max

<400> 17748

agcttaagct ctttcaactg cttatggctc ttaatatattg aagaggatac ttgaggaacc 60
ttcaccggac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120
gctgggggca agtaaaattt cttacaatca gaccttggat gcagctgaga tcgcataccc 180
atatcagcta gatcttgacg agtattcaag ccattcctca tcttgccttg aatgttaagg 240
agcgtcccaa tcacactgtg acaatacatt ctccacatgc atgacactcg tacgatggct 300

agcgccgaga tcacgccagt a

321

<210> 17749

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17749

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cgcgatctcc tttcctttca acgacttcat tcttcgggtca gagatcttct gaggttgtgc 120
tttatagggtg aggttatcct tcacctgtac ctctccact gcaagaatat gtgatggatc 180
cgggttgtac cgtctcagtt gagagacatg gaacacaggg tgcaaattcg ataaactcgg 240
aggtaaggcg atatgataag ctacaggccc aatcttcttc aaaatctgat atggacctag 300
atacttgggt gtcaacttcc tagccttgag agctcttcca cactccgtta tgggagaaac 360
cttcacaaac catgttc 377

<210> 17750

<211> 260

<212> DNA

<213> Glycine max

<400> 17750

tagactcagt tcaacctacc atcctttatc tgattgttta acttaacgga ccataaaatc 60
gttggaggac cttttgaggg cgtgtgtctt agagcaaaat ggaagttggg agagttttcc 120
tgccattgat agagtccact tacaacaata tgtttcactc taccattggc atggctccct 180
atgaagattt gcatgggtata aggtgtagga cacctctatg ttggctagat cctgcagtaa 240
accttacctt atgaccttga 260

<210> 17751

<211> 363

<212> DNA

<213> Glycine max

<400> 17751

agtctttcag caataacatg atcttttcag cttctattca agtgatcaat tcttttcttc 60
caggatcatgt acattgcagt ctaaatacaag tccatatcag catctttcat atgcaccatc 120

aacaatttca gaacttcaca cacctgttca ttggaagaga caaatctgtc tccaacaaca 180
aaactgcaaa tctggtcttt caattcaatc cagctcctcc ccgagtcact tttattttta 240
atgcctctcc tcagcttcgt tgagctggca aaatcatccc agtttccttc agcggcataa 300
atatttgata tcaacgcata agttcctgca ctatatggct tcatatccaa agctctcaaa 360
gct 363

<210> 17752
<211> 377
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17752

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gctatacgag acatctttcc aaacaaaggc aagttagcca taactcgggt gtgctttttc 120
ttccatgcta tatgtagtaa agtcattgat cctgtcaagt ttgatgagtt ggaaaataag 180
gccgcaatta tactgtgcc gttggagatg tattttcccc tgctctctta gacatcatga 240
ttcacttgat tgtgcatcta gtcagagaaa tcaaagtgtg tgggtcggct tatctacgga 300
ggatgtaccc ggttgagcga tacatgaaga tctntaaagg gtatacaaag aatctttatt 360
gtctaggagc atctatt 377

<210> 17753
<211> 376
<212> DNA
<213> Glycine max
<400> 17753

tgtttcccaa gtttttaagt tcttctcaa aactgtccta agcaaagttc ccaaagtcct 60
attaacaact tccgtttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt 120
agtgccccac ttgctccaca aagtcctcca aaaatggctt aagaacttag agtcctatc 180
actaacaatg ctcttggca aaccatggag tctcacaatc tccttgaaaa acaaatcagc 240
cacatgggaa gcacatcaa tttttttaca tggaataaaa tgagccattt tagaaaacct 300
atcaacaacc acaaaaatgg aatctctacc attgcttggt tttggcagcc ccaaaacaaa 360

atccatggat aaatca

376

<210> 17754
<211> 334
<212> DNA
<213> Glycine max

<400> 17754

agctttttca aagtcaagtt tgaaaacccat gcaggggtta tttttgaatt tagcttcaac 60
taagacctca ttagctatca ttacaccatg gaggatatgt ctgcctttga ggaaagcaat 120
ttgcctttca tcaattaagt gaggcagcac aagagccagc ctattagcca ggactttgga 180
cattattttg taaacacacc ctatgagaga gatgggtcta tagtcattaa gagattgggg 240
gctattgggtt ttggggatga gggctatgaa ggatgcatta cttcctttgg ggaatctgcc 300
attaatgaag aattcatcaa agaatatgat aaaa 334

<210> 17755
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17755

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cogattgagt catttaataa ttcgaaacgc tcgaaattga atacagaagc tctaagcaaa 120
ttcaaattgac aataactttt gactcagata ttcgattgag tcattttata atttgagacg 180
ctcaaaattg aatgcaagag ctctcaccaa attcaaattga caataactct ttactcagat 240
gtccgattga gtcccgtaat atatcttgac actcaaaatg gaaaacagaa gctctgagca 300
aattcaagcg aaagtaactt ttgactcaaa tgtccgattg agtcatttaa taattaaaga 360
cgctcggaat tgaatataga agctgtcaca aaattcaaatt gacaataact ttatac 416

<210> 17756
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17756

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 tgatatagta aataatttgt tttgtggcct tgagatgagt agtgggttga gtctccatgt 120
 attgactgat gagtgcagta ccatatagaa tgtctgggtct tgtggacgtc aaatatcaca 180
 aactaccacac caaactcttg aaatttgtag cacccatctt ttttgcttcg tcaaactttg 240
 ataacttcat tntgcactcc aacgggtatto caattggtt gcatagtttt gctatgaast 300
 gaagattcaa tcttcctttn gctttaccto aataccaaga tagtatgaca ttaatccaat 360
 atc 363

<210> 17757
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 17757

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 gctcacctcc ttgaaatgag aagctagagc ttagctacac accccctata atagctaagc 120
 tcacccccat gaaaaaatac aaaaaaaaaat ccttactaca aagactactc aaaatgcctc 180
 gaaatataag gctaaaaccc tattctacta gaatggccaa aatacaatgc ccaaataag 240
 gaaaaaccta ttctaataatt taaaaagata atcgggctca tacttagccc atgggctcga 300
 aatctaccct aaggctcatg agaaccctag ggcccttcct tggatctctg gcccaatata 360
 cttggagtct tctatccaat gcccttgagg gataggattg catcattatg tacatatt 418

<210> 17758
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17758

ttgaagggtgc gtagtccacc attttcccta gtagaattct ggtaatgtgt ctactatcat 60
 tgtcatcggt tttttcgtca ttgagggtgcc acttaagctg ccagggttctc tccacctttg 120
 ggcgatttct tttgaaagaa tcgtgcctc tttttgcaca tgttctatag ttgcatccta 180
 tccgaagaca ttatactgac actgcctaac gaaggcaacc actaggtcat tccaagaatg 240
 gactcgggaa ggttccaagt tagtgtacca ggtaacagct accccagtaa gactttcttg 300

gaaggaatgt atcagcaatt ccttatcttt tgtgtatgcc cccatcttcc gataatgcat 360
 ctttagatgg ttcttggggc aagtagtcct ctctgacttg tcaaag 406

<210> 17759
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17759

ntgaataatt gttgccaaaa tgtgttgata aatattctat ctttgtcaga aacaattgtt 60
 tttggaaaac catgaatttt gacaatgttg gcaatgaaaa cttcagccac aaccttgta 120
 ttaaactcaa acttcaaagg gataaagtac ccaaatttgg acaatctatc aactactgta 180
 aaaatgggtg taaatccttg tgaaggaggc aattaaacaa taaagtccat tgctatgtct 240
 tcccatatct gttgaggaat gggaagaggc tgtaacaacc cagctgacaa aacatgatca 300
 actttagctt gttgacatat ggcacattcc ctcaqaatt tactaatatc acttctcata 360
 ccattccaat anaattgagc accaattcta gctac 395

<210> 17760
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 17760

agcttgccat tagttaacac tggtccatta taattaaccg aagtgtcaaa cattttcatt 60
 caaatcttgt tactattact attttaagcc tccccttctt tttcattcaa atcttgttac 120
 taaaaactat aaaaactaca aaaacaaagg tcaacatgta aatactatac aactaggcaa 180
 acaattttac ctctttttgt tcaagtatct tatccaattc tttgagctct ttatccaatt 240
 tttcttgaag ggatgagtgt tctagctcct ttgtgtcttc ttccatttca tctacaaaca 300
 aggtacatac atttaaaaac catcaataat taggataaaa tgccaatgca caaagagaga 360
 aaaatgaaaa ttaaggagcc caa 383

<210> 17761
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 17761

agctttttat aaatcactac taaaatctaa agatgatctg aagttcaacc aaagttctca 60
gtcgcctttt ttcttttggc catgttctta ttacgttta atgtttttgt agactgtgag 120
tggaaggcgc acgccggtaa catatgtgtt gcatcatttg attggagctg cagtgggaatc 180
tgtaagtcag tggagaagat taaatatgtc cactcctaagt gtggtgaagg aaatggagca 240
gtttggagtg ctctatctta gattgtttct aaaagggaga tggttttttc tggttgggag 300
aggatataat tgcagctggg acaaagacaa agacagtttt cagatttgag attgagcaca 360
taggtataac atg 373

<210> 17762

<211> 340

<212> DNA

<213> Glycine max

<400> 17762

tttaactgaa tttgcaacgt tccaattgct ttttaaattg tgtaatcgat taccagtgc 60
tctgaacgtt gaaattcaaa ttaaattgtg aagagtcata tcttttcata aaatgctttg 120
tgtaatcgat tacatggttt tggtaatcga ttaccagtta cacgttttga atagaaagtc 180
aagagatata actctttcaa tggttttcag ttctttctca agggatataac tcttccaatg 240
gttttcttga ccacacatga agagtctata aaagcaagac cttgacttgc atttcaaaga 300
gacttacaac tcttacaact ttttgaacat ctctttgaac 340

<210> 17763

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17763

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tgtcgtctgg tgtattntaa gaggtttaat cattttaata tttttaataa aattgaaatt 120
ataatttttt taaaataaga ttgtttggta tgaggaaatc aaaatgcatg caattgaggt 180
tatgtcttgt ttgatatttt aagcatacta acttttggatg tgattgcgaa aaattataca 240

tatcttcgtc cttaaataata acattatatt aatttggttt gtcttttttt ataaaagtct 300
 ttctaagttg acttttgcac taattttttt acccagatat ccttagttat tctatagtag 360
 atgttatgta ctactgaaca gataaatgta taatatctca tcactactat aaaaaagatc 420
 ttttaca 427

<210> 17764
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 17764

actcaagctt ataaaactttc tgcgatgaaa tctaacaaat aatatttttt attcatttct 60
 cttattctca tctcactttg ttttatgacc acaacacaga caaggagtga ggcatagtct 120
 taaaaaatta aaataaaaaga tatatggtag gtataaagtta aatagtagtc atattcggct 180
 aaaacataat aataatgtag tttataatgt tagtcaagga ataaaatagt tcaattgtaa 240
 agacaaaaag taggcatatg gttataataa gtatacatga tatttttcgc tatatgttcc 300
 gaatgtgaat ggtaggatg atgaactaat ttatataatt aaggggtgtg tatcttcttt 360
 ttcacacaaa gagatttaaa ttaaaattct ctattattta attaaattcc ttgatat 418

<210> 17765
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17765

agcttgctt gcccttgat atatttgagg gactcatggt cactatgaat gacaaattcc 60
 ttgggataaa ggtagtgttg ccatgttttc aaagcccgta ctaaggcata caactcctta 120
 tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180
 tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240
 aaagattttt gaaagtgttg caacgcaagt atgggggcat tagttagctt ttgcttaaga 300
 acattgaaag cttcttcttg tttctctccc catttgaaac caacattttt cttgagcact 360
 tcattgagag gtgct 375

<210> 17766

<211> 382
 <212> DNA
 <213> Glycine max

<400> 17766

tcttggcaat cctcattcca ggcattcagtt tggtttttgc gtaagagttt gaacaacggc 60
 tcacaaatgg cggtagagctg agatatgaat ctggcaatat aattcaagcg tccccggaaa 120
 cctcggactt gcctctctgt acggagttct ggcatctcaa ggatagcctt caccttttcg 180
 gggctctacct ctatcccttt ctgggttaca acgaaaccaa gcaatttccc tgatttgacc 240
 gcaaaggtag acttagcggg gttcaacctt aattgatatt tcttaagcct ttcgaacaac 300
 ttccgctggg tgacaagggt ttcttctctg gatttagatt tagcaattat gtcgtccacg 360
 tagacctcga tctcttgatg ca 382

<210> 17767
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 17767

agcttgccac ttaccagtag aaatggagca taaagcataa tgggctttga agttttttaa 60
 tttttagtgag gctctatcag gggagaaaag gaagctgcaa ctcttggagt tggaagaaat 120
 gagactaaat gcatgagtc ttcaaattgt acaaagaaaa agtgaaggct tatcatgaca 180
 agaagctgct aaagaaatac ttccgatcgg gtcaacaagt tctattattc aactcaagat 240
 taaagctggt tctaggcaag ttaaaatcta aatgggtctag accattcacc atcaaggagg 300
 tcaagcetta tggagcagtg gaattatttg accctcaatc agaaacttca gatagaagct 360
 ggacagtaaa tggccagaga ttg 383

<210> 17768
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 17768

tctaaacttt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60
 tottaagaag ggggggttga attaagatat tccaaactac tcccccaatt aaaaatctat 120

ttcacttttt attcaagtta taaattacct taataatgaa cttcttaaatt attgattcaa 180
 ataaaacaat ttgaatataa atataaagca ataataaaca aaggagatta agggaagaga 240
 aagtgcaaac tcagatttat actgggttcgg ccacaccctt gtgcctacat ccagtcccca 300
 agcaaccgc ttgagagttc cactatcttg taaattcctt ttacaagttc taaacaca 358

<210> 17769
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17769

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 cctattaacc agccaaacac taaccacacc tctctctgcac ccactcctcg tagaactgac 120
 agaattcaaa ctagaccacac caaatacatt gactatcaaa ccagttttcac atcagccatt 180
 gttaccaatc atccaggcac taaacacccct atttcttctg tgatttccta taacaagctc 240
 tcttcatctt atcacagctt cattcttaat gtctctgcta attctgagcc taagtcttat 300
 aatgaagcct gtaaacaatga ttcttggggt caagctatgc atgatgaaat ttctgctcta 360
 gagaggaata atacatgggt gtcactgat ttacctcaac ataaaaatg 409

<210> 17770
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 17770

agcttatgct gcaaacattt acaacagacc tcttcaacct cagcagcaaa atcaaccaca 60
 gcagaacaat tatgacctct ccagcaacag atacaatccc ggatggagga atcaccctaa 120
 tctcagatgg tctagccctc aacaacaaca acagcagcct gtccttctct ttcaaaatga 180
 tgctggccta agcaagccat acattcctcc accaatccaa caacagcaac agccccagaa 240
 acaacaaaca gttgaggctc ctccgcaacc ttccctcgaa gaacttgtga ggcaaatgac 300
 tatgcagaac atgtagtttc aacaagagaa cagagcctcc attcagagct taactcgcca 360
 gatgggacaa t 371

<210> 17771
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17771

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atctttaagt ctttgcataa taagaatgtg tttggatgag agaatttaaa attttgaaaa 120
atttaaaatt ctaataattt caaatacttc aactgaaatt cttttatttt caaatttttg 180
tgtttgata aaaaaattaa atttgtgaga gagaaagaaa atgagtcgcg agtttgagaa 240
agagatttcg aaaactttta tgttggaaga gaagatgaat gtttgttata aaggaaatac 300
agaaactttt tagaaggaaa ttaaaatttc acatttttgg ttgttaaaat tctgttttaa 360
aattccaaaa atttaaattc ttcataaaaa atatccaaat 400
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<210> 17772
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 17772

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agcttcaatt tacaaccata ttgttgaagc tgtaataaaa gatgaagggtg gtatggtttt 60
tctctatgga tatggaggta caggaaaaac atacatttgg aaaacacttg caagttcact 120
gagagctgac aataaaattg tcataatggt agcctttagc gccatagcgt ctctgctatt 180
gtcttgatgt aaaactgcat attcacaatt taaaattcca gattgagttt ttgaagactc 240
aacttgcaag atccatcatg gaactcaatt agctgaacta ttaactcaga caagtctgat 300
catttgggat gaagcacgca tggatcacat attcagtgat gaagcacttg atcacagtct 360
tagaga 366
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<210> 17773
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17773

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agcttcaaca ttcatatttt gagcgtctcg taattttacg ggactcaatc agacatccga 60
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gtaaaaattt attgtcgctt ggattggctc atagattcaa cattcaattt cgagcgtctc 120
gatatattac gggcctcaat cagacatccg agtaaaaagt tattgtcgctt tgaattggct 180
cagagcttca acattcaatt tcgagcgtct cgatatatga ccggactcaa tcagacatcc 240
gagtaaaaag ttattgtcgt ttgaattggc tcaaagcttc aacattcaat tttgagcgtc 300
tcgttatatt acgggactca atcatacatc cgagtaaaaa ggtattgtcg tttggattgg 360
ctcagagatt ctacattcaa t 381

<210> 17774
<211> 402
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17774

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aacgagacgc tcgaaattga atgttgaagc tctgagccaa ttcaaacgac aataactttt 120
tactcggatg tctgattgaa tcctgtcata tatcgagacg ctcgaaattg aatgttgaac 180
ctctgagcga attcaaacga caataacttt ttactcagat gtctgatata gtctcgtaat 240
atatcgagac gctcgaaatt gaatgttgaa gctctgagca aattcaaacg acaantaact 300
tttactcgga tgtctgattg agtcccgta tacatcgaga cgctcaaaat tgaatgttga 360
agctctgagg aaattctaac gacaataact ttttactcgg at 402

<210> 17775
<211> 363
<212> DNA
<213> Glycine max
<400> 17775

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agaatagtga ggcttcaatt aaaaacctag aaactttggg aggccaacta ccaaggcaac 120
taatagacca ttttggaggt tgattttgag aaaacaccta atgaaatcct aaggagcgtt 180
ggaaggctat taatacaaga agtggaagga ttattgggag tgggtgtcgat gataacttgg 240
ctaaagacga tcaagtggat ggaggcaagt tgtacaaggg taagaaaaat gatagtgaga 300
gtgaagagga atccaattaa aaagatagag tgtatagaga ataagactca taatatgagg 360

gtg

363

<210> 17776
<211> 380
<212> DNA
<213> Glycine max

<400> 17776

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caattcatca gtgggctatc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caggttctgc tatccagtga ttagaggaag gccaccattc ttgctttcca 180
gtattcatag ttggttccat caagaattgg tggctctgtc actggtcctc cttctttctc 240
catgttcac cagattttatc tccctaaatc tcaactctgag atttcgagcg ttggctctgc 300
atccaattga aattctgata ctggggacag atgtcgtaca ggatgccacg acttcacgct 360
tcataacact cagattgtat 380

<210> 17777
<211> 368
<212> DNA
<213> Glycine max

<400> 17777

agcttacatg ggtttctaga agtccaaagc agatgacgga cacctgttaa tcacataggc 60
aaccgctgtg cgcagcttcc ccccatatgg accttggcag gccagcactg agcaacatgc 120
accacacttt atccaatagc gacctaaaca tacggtcagc acaaccatta tgctgaggtg 180
tgccaaggac tgtcaagtgc ctttaagatac tcactttccc tgcaaaacac attgaattgc 240
tctgaaacag actacaggcc attgtcattg cttaaaaactg ataatatagc accaagttga 300
tttocaataa gaggacgcca ctctctacat ctttgaaaag cttctgactt atctttcaaa 360
acatacaa 368

<210> 17778
<211> 380
<212> DNA
<213> Glycine max

<400> 17778

agcttgtatc catggcttcc tatggtggtg agcttgttct tgactcatct tctccttgaa 60
 gtggcatctc caatcacctt tccttctttt ccattccggt gtcattgatc ttcaagaagc 120
 aaagggctct attgatgaag aagatccaat gcttacaagc tctatatgga gctacatcag 180
 tttatgagat ataggttgaa gttgtgtata atatttgatt gatatcattt tttgggygat 240
 caaggatatc atgcatatgt tacaatttag atgcaaacia aatttgcata gactaaccac 300
 ccaatttggg tgttgcaaca acattatgaa ctaaaagaga aaaatgtcca acaataaaaa 360
 ttacctttga agtaagggtc 380

<210> 17779
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 17779
 tgtcttcaac aaacaaatca aaatctatct tctgattttc attacctagc tccagcttcc 60
 tctcccccat atcaactatg cagcttgagg tcaacatgaa tggccttccc aatattacaa 120
 ggatgtcagt atcttcagag atatccatta ccacaaagtc tgtcgggaag ataaaatgtt 180
 ttactctgac caaaacatct tcaattactc catatggcct ggtaatggag cagtaagcta 240
 attgtaaagt cattcgagtg ggcattatct ccaactcttc caatcttctg cacatggaga 300
 gtggcatcaa attgatactg gctcccaggc caataagagc ttttcccaca ttgacttctc 360
 caattgaaca aggaatcgtt acactcccaa gatctttat 399

<210> 17780
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 17780
 atcttttacc aaaggagat ggaccatttc aagtgcccg aagaatcaac gacaacgctt 60
 acaaagctga gctgccccga gagtataaag ataactccac cctcaatgac tcagaataat 120
 ctctttttga tgcagacgga gaatccgatt tgaggacaaa tcctcctcaa gagggagaga 180
 atgacgatga catgttcaag agcaagggca aggatccact tgaaggactt ggaggaccta 240
 tgacaagggc tacagcaaag aaagccaatg aagctcttca acaagcgctt gccatactat 300

atgaatacaa gccca

315

<210> 17781

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17781

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taactcgaaa gtcacttcca cgaatgtcaa cattgcaatt ctcaaattctc tttggatcaa 120

acatcaaagg attatgccaa acttttaggat ctctccctat tgcccatgca tttactatga 180

tccttgattt tttctttatg aaataaccat caatagtaac atctttctga ctctcagag 240

gtacgagcaa cggtgcaacc ggggtgtaatc gtagcgtctc cttcaccacc atattcaagt 300

aagccagttt ttctaagtca atttccctcca cgtgtctgtt catccccact acattntcta 360

gctcatcttg aagtctcttc atcacacttt gatgcctcaa gagttctga 409

<210> 17782

<211> 347

<212> DNA

<213> Glycine max

<400> 17782

tgtccttcct agataacgta gtgccacacg agcactgttc acttgggata gtccccacag 60

tgcttctcgg gtgtcctcaa atcagaaagc acagagaact gtctctgggt gcacctattg 120

cacatataca tcttggggca gaggtcctc ttgtaatgga tctcggcaca aatcattgac 180

ttcaaagggt ggaactcggc atgccttttg ttccatctac acccttggtg agggcacgaa 240

tatctctttg tcacactatc ttctgcacct aaaaacaaca cattactctc ctttctgtgc 300

ttttcttcat gggatgcgca aagctgcact tgttttgact cttccca 347

<210> 17783

<211> 362

<212> DNA

<213> Glycine max

<400> 17783

agcttaataa gaggcacgct aagtgggtag agtttttaga gcaatttcca tacgtcatca 60
 aacataaaaa ggggaaaggg aatgtagtgg ctgatgcact gtctaagaga catgctttac 120
 ttgctatgct tgaaactaaa ctgtttgggc tgcagtcttt gaaagacatg tatgtgcatg 180
 atgtggactt tgctgaaaat tttgctgcat gtgaaaagtt ttctgaaaat ~~ggttactata~~ 240
 ggcataatgg attcttgttt aaagcaaata aattatgtgt gcttaagtgt tccattagag 300
 agttgcttgt gagtgaatcc catgaggggg gttgatggga cactttggga ttaaaagacc 360
 ct 362

<210> 17784
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 17784
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 tgtggagagc ttccgttggt caattttgag cgtctcgata tattatgcgc ctgaattgga 120
 cttccgtgtg attagttatg accatttgaa tttctcgaga gcttacgttg ttcaatatcg 180
 agcgtctcgg tatataatgc gctgaatct gacttccgtg tgacaagtta tgaccatttg 240
 aatttctcca gagcgtccgt ttgttcatat ctagcttttc tatttattat gcgcctggat 300
 tagactttcg tgtgatatgc tatgaccat 329

<210> 17785
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17785

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 atgtcctaca ttatttccat gatacacatg caacaatgat gattaggaaa ttttatgcaa 120
 aactggatcat gcatgcaccc atgtggacac tcaagcataa agtttttatg gtcatgtgac 180
 actaggggtc aagattcatt ntccctatct aagtcaacc agtgtttcca aaatatgtc 240
 ttttatcaat ttatgcattc atccgagtc cttttgtgag ttcgggaaaa ttttcacagt 300
 attcaccctt tacgtgtata cacattcttt ttttcaaaca aactggttat gatagtgaaa 360

tcattttca

369

<210> 17786
<211> 371
<212> DNA
<213> Glycine max

<400> 17786

agcttttgtg ttctgagaat agttacgtca caactcgagt gatggggaca tttggggttag 60
tatgattaag ctaagcattc tcctatctct cttaccaaata tataattagt tcaagttcct 120
gtatgattgc aatgtgtaag tgggtccctaa tgttttaaagg tcaaaagata ttgattctct 180
ccttttttct ttttctgtag ttatgttgca ccagaatatg catgcactgg aatgctgact 240
gagaagagtg atatttatag ctttgggata cttatcatgg agataatcac cggaagaagt 300
cctgttgatt atagtagacc gcaaggagag gtttagaggcc ctcaccaata aaagaccata 360
gttaacattt a 371

<210> 17787
<211> 368
<212> DNA
<213> Glycine max

<400> 17787

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gctaaaccaa ggaaactcct aatctcaaac actaacttat gactctccca actcatcacc 120
acctctacct tggaaggatc tactgctatc cctcccctag atataacatg ccctatgaag 180
ctcaccttct ctagccaaaa ctcatactcg tacaacttag catgtagtct gttgtgcttg 240
agggtttgca acacaaccct cagacgctcc tcatgttccct cccttgtctt ggaatacacc 300
aagatatcat ctatgaagac cactacaaaa ctatctagat agggatgaaa gatcctattc 360
atgtagtc 368

<210> 17788
<211> 368
<212> DNA
<213> Glycine max

<400> 17788

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 ggaaggattt ctgatggaat cgtctgtcat cgggctgatt gctcccagtg gaagaagatt 120
 gatggtttgt atccggattt cgggaatgag ccaagaaatc ttagacttgg actagccagt 180
 gatggaatga atccatatgg aaccttaagc actcaacaca attcatggtc agttctgcta 240
 gtaatttaca atttgcttcc ttggttgtgc atgaaacgaa aatacatgat gttgtctatg 300
 atgatatcgg gtccaagaca gccaggaaat gacattgatg tttatctaag ttcgttgatt 360
 gaagacct 368

<210> 17789
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17789

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 gctgttcagt gggatctgac ataaattgac agaccttggt ggccaagaaa ctaatttcag 120
 ttctggtgat ggttgcatac tgcaaagcac ccacaacaga tctgtataga gtgggatcag 180
 aaaaagactc ataccctgat ttggttaact tgcagccacc aaccattgga gaggagatgg 240
 aattagcttc atccatcttg gtttttagtca acagatctct tgtatacttg gactgagtta: 300
 gaataagagc acattaggct gaggtctgac ttcaataccc agaaaataat ccagattacc 360
 taaatccttt atagaaaact cagaattaag tntagtaacc aggatttaat gaaattagga 420
 ttgttgcttg tgacag 436

<210> 17790
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17790

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 gcgaacaaat gtggagtatg gaggattgcc ttgaggggtcc tcacttacgc ggtcgtgaga 120
 ctgagctcgc cactcgagag tggaggacac attaacagcc ctagacaata gcattcatgt 180

ggctctggaa aaggaacaga atggaggatt gccttgaggt tcctctctta ngaaatcatg 240
gaatacaact ccaatactcg aatatggaga acacatgaac aggcctaagc aataacaatc 300
atgtggctcc ggaaaaggac gataatggag gattgccttg acgttctctt cttacgcaat 360
catggaatac agatgcagac tccaaaatgg acgaccctga atga 404

<210> 17791
<211> 367
<212> DNA
<213> Glycine max

<400> 17791

gtggcgttat tcttaggtgg aagatcaagc ttgtattagt gccacaaacc gcgactgttt 60
tcacagtgac caagacctta caacaaggat ggagcacgct tcttcataga tggcagcaag 120
tggctccaca tattgatgag aatctcttca ttagagttat cattcaacca gggaatggca 180
ctgttctctg caagagaaca gtaacaactt cttacaatgc tctctttctt ggtgggtgcta 240
atacgcttct ccaagtgatg aaccatgggt ttcttgagtt aagggtgaca agaaaggatt 300
gagtggagac tactgggatc gaatctgtgc tatatattgc tggctaccct gatggaacag 360
gccaga 367

<210> 17792
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17792

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acatcgtagt ggtcggagag gaacagttct ttgcaccat ggaactgtct ccgaccacca 120
atcgactctt ccggcctgta gtaccacctc acacgcacct tcacgttggt cctattatcc 180
tgctcgatca tctccacgcy cgccacgtaa gggggcttcg acgtgtccga gggccgcac 240
agaacacagt ctccagctgc aaaacccaaa cattttctta aacgatagct ctgcgtcttc 300
aaaacgacat cagcatcatc atcatcatcg tgggcagcca caaaaacagg gaaagggacc 360
gtcttttaac gagacaacgc anaaggggtg gcgtgtgtta cctcggacga tcttggttgg 420

tcctcttatg

430

<210> 17793
<211> 436
<212> DNA
<213> Glycine max

<400> 17793

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ggccaagaga tggctgcatt cattcaaggg caatagttta aagacctgag atgaggttgt 120
tgagaacttt ctaacaaaat atttcccaga gtctaaaact gcaaagggaa aacttgcaat 180
ttcttcattc cataagtttc cccatgaatc tttgagttag gcattataaa gctatagaaa 240
actctaactc atgggttttc agagcctatt cagctgaaca tcttcattga tgggttacgg 300
ctgtagtcaa agcagttact cgacgcttct ataggaggaa aaattaagtt gaagacacct 360
gaagaagcca tggacttaat tgaaaatatg gctgtcagtg accatgcaat tctgcatgat 420
atagttcata ttccta 436

<210> 17794
<211> 417
<212> DNA
<213> Glycine max

<400> 17794

ctttgcaagc tggaatcatt tatectatct ccgatgttaa tgggtgagtc ccgtccaggt 60
agtcccgaag aagaccggcc tcacagtgat aaaaaatgag aaggaagagt tgattcctac 120
tcgggtgcag aacagttgga gagtctgcat tgactacagg aggctgaacc aggttaccaa 180
aaaggaccat tttccctgc cattcattga tcagatgctt gaacgcctgg caggtaaadc 240
tcactactgt ttccttgatg gtttttctgg ttatatgcaa attactattg ctctgagga 300
tcaggaaaag accacattca cctgccccctt tggcactttt gcttatagga ggatgccttt 360
cggcctgtgc aatgccccctg gtaccttcca gcggtgcatg attagtattt tcagtga 417

<210> 17795
<211> 352
<212> DNA
<213> Glycine max

<400> 17795

atcttatgct gcaaacattt ataatagaca tcctcagcag caaaacaaac aatagtagaa 60
taattatgac ctttcaagca atagatacaa tccaagttgg aggaatcatc caaatctgag 120
atggacaagt cctccacaac aacaagagcc tgtccctcct tttcagaatg ctactagtcc 180
aaccccgcca tatgttccct ctcctatcca gcaacagcaa caaacacagt cacaaccaag 240
acaacaagca actgaggctc ctccctcaacc ttccttaca gagttagtga ggaaaacgac 300
aatccagaat atgcaatttc agcaagagac aagagcctcc attcagagtc tg 352

<210> 17796

<211> 432

<212> DNA

<213> Glycine max

<400> 17796

ttgatggtgt cgagaagaaa tcacatgttt gtcattatct taagggggag aatgtgaatg 60
tatgtataca tgattttgat gatttcaaag aacaatctaa caaggctgct tcaaattgata 120
aacatttgct tcaagaataa ttcaagattg cttcaacaaa caaagccttg tttcaagatt 180
cactaaagac caagccttgc cttaaaacaa agtgctttca agacatgcaa cgctctggta 240
atcgattacc aggaagtgtg atcgataacc agaagacagg attgagaaat agctgttgaa 300
aaagggtgaat ttaaattttc aacatgtaat cgattgccat atgtgtgtaa tcgattacca 360
gcaacagAAC tttggaaatt caaattcaca agtcataacc cttcaaacta taactgtgta 420
atcgattaca ca 432

<210> 17797

<211> 406

<212> DNA

<213> Glycine max

<400> 17797

tgcatacaag attcttctctg tctgacactt ttaatgtttg tggccggggtc atataaatgc 60
cttcctatac atccctatgc gagaatgcag ttgtaacagc taactgtctc acgtgaagat 120
tgtctaccgc tattatgctt agaatagccc tgatggtggt catctttaca actggagaga 180
agattttctgc gatgtcaatt acttgtttct ggtgagaccc tttgaccaca agattcgact 240

tgtgtcttct tgtaccgtca gatggttact ttagcctata taccaccta gttggtcatg 300
 ccttctttcc ttctggctat ttatttaaag accacgcttt attgttgatg acggatggca 360
 tgtcatctgt catcgctagc ttccactcga gaatgacatt cccctg 406

<210> 17798
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 17798

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 tgttctcaat tagctctgtt gcttctttcg gggctctcag ttttatcttt cccctacag 120
 aagcatctaa cagttgcttg gtttgtggc tcagcctatc tataaacata ttcaattgga 180
 ttggctcgga aaacccatga gtgggagttt ttcttaacaa gcctctgaat ctctccaatg 240
 cttcactcag agattcatta cgaaactgat gaaatgaaga gattgcagct ttcccttcta 300
 cagtcttgga ctctgggaag tatttcttta ggaacttttc aacaacttct 350

<210> 17799
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17799

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 acttcagcga ttctgcgtaa atccccagat tccactccgc ttctctcta aagatgatcg 120
 tcacgtggc attgagaatc cagcttatga aacttgggag caacaggatc aagtgtcct 180
 cacatggctt caatcgactc tctctacgtt gattttatca cgagttctag gatgcacca 240
 ctctatgag gtttgggaat gcattcacga ttatttccac aagcaaaca tagccacagc 300
 tagtcaactt cgcactcaac tntgtgctat gacattgca ggcaactcaa tacgtgaatt 360
 tctgtcacag attcgagcaa tttctgattc tctagcttct gttggaagcc ggattatgct 420
 tc 422

<210> 17800
 <211> 374

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17800

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 ctctaatgac tatggcatca tttctggcac taaactgctg agagttggaa gccatcttct 120
 caattaaatt tctggcttca gcaagagtca tgtctccaag gggtccacca ctggcagcat 180
 ctatcatact tctctacata ttactgagtc cttcataaaa atatcggaga agctgctccg 240
 aaatctgaag gtgagggcac ctggcacata gttttttaa tgcgtcccag tactcataca 300
 gactctctcc actgagttnt ctaatacttg agataccttt cctgatggct gtggctctgg 360
 aagcagggaa aaaa 374

<210> 17801
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17801

tgtaatcgat tacacacata ctgtaatcga ttacottatg agattttcag aaaatattct 60
 caacagtcac atcttttcat ttggttcttg aatggctatc aaaggcctat atatatgtga 120
 cttgagacac gaatttgcta agagtttttc tgaacaacaa gtgtttattc tctcaaaaag 180
 caaaatcggt ttatcctctt aagaattcct tggccaattc aattgcaatt cattaaggaa 240
 tcatttgagt gctcagattg taaaatctat ctcttcaaga gagattcatt cttcttctct 300
 ttctaattca ctaagggatt aagagaccga gggctctctg ttgtaaaaga attctaaaca 360
 caaaggaagg attntccttg tgtgtttaga acttgtaaaa ggaatttaca agatagtggg 420
 actctcaagc 430

<210> 17802
 <211> 366
 <212> DNA
 <213> Glycine max
 <400> 17802

agctttgctc atattttctca ttctagacaa acttctcatt tttacggggt agtttagtta 60

ggggtagtgc taatttagaa aatcccttaa tgaatttcct ataatagcca gccaaaccca 120
 agaaacttcg aacttctgtt ggagttgtca gttgttgcca ctccataacc gattccactt 180
 tagccgggtc catcgcaacc cegtcttttag aaatcacgtg ccccaggaac tgcaccttct 240
 ctaacaaaaa tttgtatttc gacagtttgg cgaacaattt cctatccctc aggatctgta 300
 acaccatcct caagtgtttt taatgtctct ccttattcct cgagtacact aggatatcat 360
 caatga 366

<210> 17803
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17803

tntctttttc ttcttntttt tcctttcttt ntttttcaaa ctttcatttg ttctaacaat 60
 cccccacttg aaatttgaaa agaagatttt cgaggatttc ataaaattgt gcataaacia 120
 aggtgtcata caacttgaac ctttgcatag tgagtaagat tcagatttta ttagagtgc 180
 tgaagtctt gaactctatc tccgacatca aaccacacac aaccttttca taggtgtatt 240
 ctataaagcc cgtgcgtaa agaccatgca cgtctatccc ggtatagtga acgctctaga 300
 natntttgcc caaaatttca tatgaagcgg cccccacttt aacattcaca taggtgagtc 360
 tatcaagagt actcctgt 378

<210> 17804
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17804

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 attggataat ttcttcattt ggttttgatg aaaatccata ccacaagatt agtgggagta 120
 aaatatgatt tcttgtttta tatgtagatg atattttact tgcagccaat gatcgggggt 180
 tgctacatga ggtgaaacia tttatctcta agaattttgg catggaggat ataggtgatg 240
 catcttacgt cattgacatt aagattcata catatagagc tcgaggtatt ttaggtttat 300

cacaggaaac ctatattaac aaaatttttag agagattntg gatgaaagat tgttttacca 360
gtgttgctcc ca 372

<210> 17805
<211> 366
<212> DNA
<213> Glycine max

<400> 17805

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gaaagctggt tgtctttcat caattaaggc aggtataacc tgtctcaacc tgcttgctag 120
aagcttagct atcactttgt acatgcagcc tatcaaggat attggtctat aatcatttag 180
ggactgagga tgggttaactt tggggataag agccaagaaa gaggcattgc tgctcttagg 240
gaaacaaccg ttgacatgga actcatccac aaatcttctg aactctgggt ttagcacact 300
ccagaattcc ttaataaaaat tgaaattaaa accgtccggc ccagggcact tatctccacc 360
acaact 366

<210> 17806
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17806

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gttgtctctt atttaaccct tcttttatta tattgttatg ttagcatatt tgtgcaacat 120
catcgttaac ctatcacaac aataattttt attaaaaaat tgacaatata ttaatagtga 180
actaaaatta ttaaaatttt aaaatgtgag agatcaaatg taaatgtgta gtataatatt 240
tgaataatca aaattacaca atcataaaat taciaagagt tttttaaacc tattatgtat 300
tcaaaattaa agaataatat taaaaaatgt tataatttac tatactctat tatgcacttc 360
ttctatttta aaataaaata taaacgtaaa aaaaacaaca taatttgata cataacgtaa 420
taa 423

<210> 17807

<211> 370
<212> DNA
<213> Glycine max

<400> 17807

agcttttgctt ctacagggaa gacttatctt tggacttcat aggggggattg tcgaccctta 60
agggycaatac agtgggtgctg gtcgtagtgg acaggttctc taaaggaate cattegggtt 120
cgctcccttc acatcacaca acattcaatg gtgctcatct ttttatggag atcgtgggaa 180
aacttcatgg gatccccac agtttagtct ccggtcgaga cccattattc atcagccgct 240
tgtggcaaga gttgttccga ttgagtggct cgaaacttca tatgagttca gcctatcacc 300
cgcaatccga cgggcagatt gaggtgatga acacggtggt tgagcaatat cttcgagcat 360
ttgtgcactc 370

<210> 17808
<211> 364
<212> DNA
<213> Glycine max

<400> 17808

gaaaacaaat tgagatgggtg agatcagata gaggtgggga gtactatggt agatacacag 60
aggatggaca agcaccaggt tcatttgcga aatttcttca agaacatggg attgttgccc 120
aatacactat gcctggttct ccagatcaga atgggtgtggc agaacgaaga aatcgaacct 180
tattagacat ggtgagaagc atgaagagta atgtaaagct tcctcaattt ttgtggattg 240
atgctcttaa gacggctgca tatatattaa accgagttct aaccgaggct gtctcaaaga 300
caccttttga gttattcaag gattgaaaac caagtttgcg acatatacgc gtttggagat 360
gctc 364

<210> 17809
<211> 374
<212> DNA
<213> Glycine max

<400> 17809

tttcaagttt gatgtttaaa gcgagaagta cgtgtttgtg ggttacgact caagatccaa 60
gggatacaaa ctctataatc caaatagtag aaagatcatc ataagtcgcg acgtagagtt 120

cgatgaagaa gattgatggg attggagtgt tcaagaagat aagtatgatt atcttcctta 180
 ttttgaagaa gatgatgaaa ttgaacaacc aatcatagag gaacatatta caccacctgc 240
 ctcaccgaca ccaaggctgg atgaaacatg ttcaagtgag aggacaccgc gactaaggag 300
 cattgaagag atttatgagg taaccacaaa cctaaacgac attaacctct cttgtctttg 360
 tgggtgattgt gagg 374

<210> 17810
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 17810

tgcaagtgta atcgaattac ttgacttatt tacgcttcac aaagaatagg ttgccctaga 60
 atcaaaaggt aaggtcaaaa gagtattctt tatgaaatat atcttgatat gagtcacgca 120
 actatagcgt attagcatca ctaagaacaa gaaatgacaa acaaccatac tatctatgca 180
 attaaggcaa aacaccatac tacaagtgat gtagctccat gtggagcttg caggtcttga 240
 atcttcttca tcaatggagt cctttacttc ttgaagacca tggcagtga atggaaaagg 300
 aagaaagatg attggagatg ccacatcaag gagaagatga gtcaagaaga agctcaccac 360
 catagtaagc catggataag agcttgaatg taggagaaga atagtggagg gagagggaga 420
 g 421

<210> 17811
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 17811

tgtctggacc acaagtgata gtatttacct gtctgtctct taaagcctca acaaaacaag 60
 gtgtgtatct gacttcagta tcacctatcc ccagttggcc attttcacct ctgccccatg 120
 agtagacact cccccagaa gtcaaaacag caacatggta tgaaccgttt gatatacct 180
 taacaaactc ttgtttgaga tgttcttcag acatgactgc tttatccgtg tcatgtggat 240
 ttactagttg tgcataattg gcacttgcca ttgcaaaaac cttgccgatg ttagagagag 300
 ctacagtcga cattcttaca catgacactt gaa 333

<210> 17812
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 17812

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gccacagggg gaaagatgtc caaaaatgc acatattaat tatataaaat caactccctc 60
ttgttgtgtg taacccttgg ccacaagcct agctttgtaa ctttgatgg cgccattaac 120
acaatgtttg atgtgataaa cccacctata accaattgaa acttagcttg gggaaaatca 180
gttagatacg aagtatgatt tgcttcaaga gtatgtaatt catccttcat agcttttctt 240
aatacagttt catacttaac agcttatgca tatgttttgg gttcagaaat ttttgaaatg 300
gctaagggtat atatttgaga tgactaggag acaaatgatg ataggacaga acagtggata 360
aagaatataa agcagtacct gaagtagaag aaaggaacct gctgagttga gaagattgca 420
tgtagtgaaa aatga 435
```

<210> 17813
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 17813

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agttttttcc ttctcgacac gtatactctg aaccacaaga gcaagagctc atgtttgatc 60
atcacatggg tatagaatat aaaaaagtat tcacaaattt tattatatta tagtagattt 120
caaatttaaa tttatctttt tttttctttc tctcttaatt gtatattttg ttaataaatt 180
tatcgtataa gtataatttc tctcatgcaa aacaaaattt tcttacgtac actaagtttg 240
cggagttata taatatgatt tatttaccat taaattcaat ataaattgtt tatcatatat 300
acgtcagaaa tatttattta ttatgaatgt taatactact ataatttata tatattaaaa 360
ttattctta 369
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<210> 17814
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17814

nttectctgg ttgttctact ggggtttcca agagttatag ttatatgaga agaaattgaa 60
 gccttcattt tgtattgtct ttgtgcgatt cacttttctc tctccatgaa taatactttg 120
 caaatcccaa tggtaaaggt gtgcgcaact gaatcttgaa ccaagtatct caatttcattg 180
 atgatcgaac ggtaaatgag tccgggatca tagatttact aggtaggttc tgagtctctg 240
 tggaaaaaga gaaatctaca atgcgaacga catttctcta agctccaaca ttctttcgca 300
 atttccaacg gagaaaatgc tcagaaatta gtttccgacc aggtgctgag atatcacgac 360
 gatccaacga tcaaagaatc tgagatcatc atttctacta aaatagattt gagcgtat 418

<210> 17815
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 17815
 gctttgtatt ttagcctaga ggcagcgagg cacttgtcca ttaagaatga ataaaagtaa 60
 tgttcctttt gctttaatcc attctgaggt atgggggggca tccccaaaat attctatctc 120
 tggctatcgc aggttagcga tatttgggtga tgagtgcact cgaatgactt ggattaactt 180
 gttgaaacaa aaaaaatgac ccggtacaca tatttcaaca attccatata atgattcaga 240
 ctcaatattc aaagaagatt acgatccttc actctgataa tgggtggggag tttgctaate 300
 accaattcca tgagtatttc gaaaaacacc gacttattca cgaatccacg tgtc 354

<210> 17816
 <211> 151
 <212> DNA
 <213> Glycine max

<400> 17816
 tgcattggaat tccttccagt attgtatcag acaggtatcc gaggttcact tcgcatgttt 60
 ggacaagtct acatgaagcc ttgggggacaa agttgaagct tagttcagct tatcatcctc 120
 aaacagatgg tcagactgaa cgaaccattc a 151

<210> 17817
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17817

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agtttgngca tcacaatact cctgattgac gatgtctcca tatgttctta aaactggact   60
gattcatttg cttacacagt tacatgggct tgcaggcgaa gacccggaca aacatttgag  120
ggaatttcac attgtctgct ccaccatgaa acccccagat gtcgaagagg atcacatata  180
tctgaaggct atgactcact cattagacgg agtggcgaa gactggctgt attaccttgc  240
tccaagggtcc atcacgagct gggatgaccg taagagagta ttgttataaa aaattttccc  300
tgcttccagg accacatcca tcaagaagga tatcttacgt attagact                 348
```

<210> 17818
<211> 426
<212> DNA
<213> Glycine max

<400> 17818

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caagctcctt caactgcaca aggctctatt atttttgagt atccttgtgg aaccttcacc   60
cgacgaagac actgacaaaa acttatcttc tccttcttgg acaaagtatg gcatgctgag  120
ggcaagtaaa ttatcttacc atcacacctt ggatgcaact gcaatcttat acccatatca  180
gctagatctt gactggtatt gaatccatcc taagctttgt cttgaatgtt aaggaacatt  240
ctaatacacac tgtcaciaaac atttttctac acatgcataa catcaatact ctgtttaatg  300
tctatatcac accagtactg aagatcaaag aaaatggacc tcttcttcca tatgcatctc  360
tgacatttat gcttctttta gagcttccca aatacagtgt tcacagcgtg aacccgcatg  420
atatac                                           426
```

<210> 17819
<211> 363
<212> DNA
<213> Glycine max

<400> 17819

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atcttcctta agaagattcc ttaagaagct agagcttagc tacacatacc tctctaatag   60
ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct  120
aagctcacc ccatgacaaa aaacatgaaa ataacagaaa aaagtcctta ttacaaagac  180
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aactcaaaat gccccgaaat acaaggctaa aaccctatac tactagaatg gccaaaatac 240
aaggcctaga cgaaggaata gcctatttta atattttacaa agataagcgg gctcatactt 300
agcccatggg ctcgaaatct accctaaggc tcatgagaac cctagggcct ttccttggat 360
ctc 363

<210> 17820
<211> 375
<212> DNA
<213> Glycine max

<400> 17820

agcttgccct agttaagttt aggaaagtca ttcattaaat gacagtacat ttgtttcatg 60
ttttgctgtt ttacaaaaag agctaaaact actctgttgc acttcgtcta catatacctc 120
aacattacta tgcttaataa aatttggtga tcttagtaaa acataaagca ctttctcaaa 180
tattaagatc aaataacatt cagcgtatcc aagagatgca gccaaaataa ataatgagaa 240
cattaaaaaa ctgaattacc tcaacttaaaa tgagaacccc tttcttggat gcttgacacg 300
caacaaattc atagctgaca agattcattc catcccttac agatgtaaca agtgctacat 360
ctaaattcga tgtga 375

<210> 17821
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17821

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cttttgtctt tttattagta ttttttttaa attgaactaa cattctatgc tcttaagttt 120
ggcttctttt catacttgta tataaatgta aggtgtccct ttcatacccc cttttgtgtt 180
gcttgacat gcttgtagt tttttgtttt ccttttctct ttttgataat ttgattggac 240
atgcttgtga gttttttgtt ttccttttct ctttttgata atttgattga tgtgtgagca 300
atgatgggta ggaggggaga agaagtgtct gaattctgag ctatggcatg catgcacggg 360
ccccttgggtg tccctaccaa ctgcagggac tcatgtgggt tacttccctc aaggtcataa 420
tga 423

<210> 17822
<211> 360
<212> DNA
<213> Glycine max

<400> 17822

agttttagg ttatagtgac gatgattggg ctagaaatga agatgatcaa aaaagtatta 60
gtggatttgt gtttttcatg gggaatacga ccttcacttg gatgtaaaaa agtactcgat 120
agtcactctt ttgacttggt aggcagaata cgtagcagct acttcatgcy tttgtcctgt 180
agtctggctt aggaatttgt taaaagagtt ggacatgtca caagacgagc agaccaagac 240
ctttgtggat aataagtcaa ccattgctct agtaaagaac ccagtgttcc atgatogaag 300
caaacatatt gacactcggt accactacat aagatagtgc atagcaagaa aggatgtaca 360

<210> 17823
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17823

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ttggtcattt tattttactc aatacgtaat tttggtctct ctattttaaa attaaaatat 120
ttgatactcc tatttttaaa aatctacaat tttggtctct ctattttaaa atacaaacat 180
tttgtcccta tatttttagaa aattcataat tntgattctc atattataga aaattcacia 240
ttttggttta atatataatt tctcctatgt ttcatttctt ttatttttta cttttagatt 300
aattaaatca tttcttgatg atatcttaaa tgaatatgta gatttaggat ttaattagac 360
caacacataa gatataaaa 379

<210> 17824
<211> 371
<212> DNA
<213> Glycine max

<400> 17824

agcttgatcc ttacgagtc acttgggtcaa aggcaaggct aacttgagga aaccttctat 60

gaatctctag taatatcccg ctaaactgag taaacttcta atttcataca cagatgactc 120
 tcccacttaa gaaaaacttc attttagaaa gatctacagc tatatcgctt tgggatatca 180
 catgtcctag gaaactaagt ttccttaact aaaactcgca cctggaatct tagcttaaag 240
 ttgtcagtcc ttaaggggtt gcagcacaat cctcaagtgc ttttcatgct cctctctagt 300
 cttggagtcc accagaatat catctatgaa ttctaccaca aaattatcta gataagggcg 360
 aacaatctta t 371

<210> 17825
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 17825

tcatgttgaa gtatgtatgg aaaaacttca ttactgttgt ttaacacata caagtgagct 60
 tgtaacaaat cttcagactt ggagttataa catgcagtcc tcttcaaccc ttaccacca 120
 ctctgtcgtc atggtaagac ttatgaagcc caatagggtt tgccttttca atgtactctg 180
 aacaaaactc aatggctttt tcttcaatgt acctttcaac aatagaagct tccggacgat 240
 gtagattctt ggtataccct tttaagatct tcatgtatcg ctcaactggg tacatccgcc 300
 gcaaataaat aggaccccaa catttgattt ctcagaccag atgaacaatt aagtgaacca 360
 tgatgtcaaa gaaagtagga ggaaaatata tctccaattg gcataatgta attgcagcct 420
 cat 423

<210> 17826
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 17826

atctttctat caatgtgatt aacaaccaca atttaattaa ttaattaatt aacataacga 60
 aatcagagcc aggataccta agattgattt gattcgtcga ttaaatgact agattgttca 120
 attcaaaaag gaatttacta ctactactac tactacagaa cgtatgaact tgaattgcta 180
 gtacgatcct gaacgatgag aaataaatga taataagaaa gaaagtacct tcggatcttg 240
 ttgccctggc cgacctggta catgccccaa gagaaagcgc cgaatgtggg gaggaagatg 300

gcaacggcgc tggggccctt gttcgggatg cgccgggcca accggaccgg agcgaacccg 360

c 361

<210> 17827

<211> 427

<212> DNA

<213> Glycine max

<400> 17827

tcaacattca atatcgagcg tttcgatata ttacgtgact gaaccagaca tccgagtaaa 60

aagttactgt agtttgaagt tgctcggagc ttcaacattc aatatcgagc gtttcgatat 120

attacagaac agaatcggac atcagagtaa aaagttaatg tcgtttgaat tatgtcagag 180

cttcggtatt ccatttcgag cgtctcgata tattacggga ctacgtcaga catccgagta 240

aaaagttact gtcgtttgaa ttttctcaga gtttcgataa tcaatttcga gtgtctcaat 300

atattacgcg actcagtcag acaaccgagt aaaaagttat tgctgtttga attatctcag 360

agcttcggta ttccatttcg agcgtctcga tatactacgg gactcaatca gacatccgag 420

taaaatg 427

<210> 17828

<211> 360

<212> DNA

<213> Glycine max

<400> 17828

atgccagtaa aaagttactg gtggctgaag ttgctcagag ctccacatt caatatcgag 60

cgtttcgaga tatgacacaa caaatcggga catcaaatg aacagttaag gccatgcgaa 120

ttatgtcaca gcttccgtat tccatttcga gcgtctcgat atattacgcg actcacacaa 180

acatccgagt aaagacttac tggcgtttga attttctcag aacttccata atcaatttcg 240

agtgtatcaa tatattacgc gactcaggca gacaaccgag tagaaagtga ttgtcgtttg 300

aattatctca gagcttccgt attccattac tagcgtctcg atatactaca ggactcaatc 360

<210> 17829

<211> 403

<212> DNA

<213> Glycine max

<400> 17829

agttttgacta tgttatgcaa attgtctctt atggccatga ctaacaattg ttgcatcaag 60
atgtggcaat catgagactt taagcctact aatttaagat ctttcaactg cacttggtc 120
ttaatatattg aagagtatcc ttgtgggact ttgacctgtc gtatacactg aaaaaaactg 180
atcttctctt ttctgggcaa agtatgacaa gctggaggca agtatatttt ttaccatcag 240
accttagatg taactgcat cgtatatcca tctcagctag atcttgacaa gtattcaaatt 300
catctttcgt cttgccttga atgttaagat gcgtcccaat gacactatca catatatattt 360
tctccacatg catatcatta atacaatgtc taacatctag atc 403

<210> 17830

<211> 233

<212> DNA

<213> Glycine max

<400> 17830

actcaagctt gtagaacaat aaatcccaac acaccacatc actgggttgc tcttaatctg 60
tttgaaaaag agtattcctt cttctccctt cttgcacgt caataacctc attgaccacc 120
aaggctactat gaaaaagata cctatctttc aagaagggtgt ttgctttttg atcaataact 180
ccatttaata ctttcatcaa cctattggca agtaattttg ccaatatttt gta 233

<210> 17831

<211> 396

<212> DNA

<213> Glycine max

<400> 17831

agttttgagc caataccaac gaccataact ttttactcgg atgtctgatt gaggctcgta 60
atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaatacaaa cgatactgac 120
tttttactcg gatgtctgat tgagtccgt aacatatcga gacgctcgaa attgaatctt 180
gaacttctga gctaattcaa acgacaataa cgtttttctc ggatgtctga ctgagtcccg 240
taacatattg agacgctcga aattgaatgt tgaacctctg agctaattaa aacgacatta 300
actttttact cagatgtctg attgagtcgc gtaacttatc gagacgctcg aaattgaacg 360
ttgaagctct gagccaatac aaacgaccat aacttt 396

<210> 17832
<211> 417
<212> DNA
<213> Glycine max

<400> 17832

caccagggtcg aggcaatata ctatccccat ttctgcttat aaccttcac ttcattggtg 60
tgctttcaga aacactagaa gaggcagtac catgaagtac tcggtaactg tcttgattag 120
atgaagttct aggaatggat cgagctgaac cataattact tctgtcctgg tgttgagaag 180
agttccttct gtcaaactct tttggaccct tttcaacctt tgtgagcaca gaaatatctg 240
atccactctc agatcctgga tggcccaaaa tgcctttcaa ttccatatag cctgttgaat 300
aattgggagc acccacaaca tttggaaagg caggcttcct gagattcacc ctatctctca 360
taaactcaag agcaaattcc tcaccagtct gtatggagta attaagtaca ggtttat 417

<210> 17833
<211> 282
<212> DNA
<213> Glycine max

<400> 17833

tgttttatac ccattatcac atctacagga ccaaggctct tcatatcaaa atttctagat 60
aagaaagact tcgcatcac ttcgaactac atatgatgat ccagtatcgg tatgtcatgc 120
acatactaac atgacacgac gcattcatta tcatcatggt gtgtcacata cacacattta 180
tcagtgtgat tgatttgaaa accatacgag agaagaactt gatcaaattg ttctgccact 240
gctttgaagc ttgattcaaa ctatgcatag attgaacaaa tt 282

<210> 17834
<211> 403
<212> DNA
<213> Glycine max

<400> 17834

tcaagcttcc taataatgat gaacgactat caacatagct cctatatata tatagtctta 60
tctcatatag ccctaataac actaataact aatttttaac attctatcat tcaaaagtat 120
ttctacagaa ataatgaatt aactttcaaa tattttacga ccatattgtg aaattgtgtc 180

taaaatcttt atttcatctt ctaaatacaca aaaatgataa taaagttcaa aactaattgt 240
 taatcacgat aagaatcacc catgagggaa aaaaaacctc tataaagggtc atttacatta 300
 aaataaaactc agagataata cagattatta taaaagataa attctatatt ttaaaatcaa 360
 aaggaggtgg cttaattgga atgcaaataa gacacgactt tac 403

<210> 17835
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 17835

tggcaagcca gagtctcttc ggctggctct ttgcttggtc ataatcagct gccggaataa 60
 gtaggcacca ccattcaata ccattataga gaatcaaata atatatatat catcagaata 120
 aaattaaaata ttttctattg ataggaattg tatataagca ttaagaaatt tataagactt 180
 ccgcaccata cttaactaag ttataagaaa acctattgga tgcttttttt ttgggtgatag 240
 gaaatcggat gttgaagttt aaatgaaaaa aagtaaaact ttctcatatt attgggttagg 300
 aacattaatg gtgtaaatth taataaatta cgacatacaa caacataaat aataaaaaac 360
 acttgtaaaa ttatatcata cgctgagata atcaaattcg ttgagataac taaaaaaaca 420
 tagatt 426

<210> 17836
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17836

agcttgctgc ttcattgaca gatttactta aaaaagaagc attcaagtgg acaccagagg 60
 cagagacaac atttgttcaa ttgcagaaag tcatgacttc agctccagtg ttagctcttc 120
 ctaatttcca gctgcccttc attctggaaa ctaatgcttc cgacactggg attggagtag 180
 tattacatca gaatggccat ccaatagcat ttttttccaa gaaacttgca cctagagtgc 240
 aaaagatatc tgactaatth agagagatgt tagcaattgt tgaagctata gctaagttca 300
 gacactactt gctgggacac aaatttatta tcaaaactga tcaaaattag tcagatgatg 360
 atgttgatgg atggaacaac cnctacagac acctgaacaa caacag 406

<210> 17837
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 17837

tgtgagacct tccgctacaa tgttgaagag aaaagggtgca aggtgatcac cttgccttag 60
 acctctctta ggagtaaact ccttagatgg actcccatta attaaaatgg atatagttgc 120
 agtattttaga caaccattta ttcatttcct ccagctttca caaaatccca tccttttaag 180
 catgtagtca agaaaacccc aagaaaccga gtcatatgcg ttttcaaagt cggctgtgaa 240
 gaccatgcaa ggtttacttc tagatttggc ctcagctata gtctcattgg caattaaaac 300
 accatgaaga atgtgtctcc ccttcataaa agctgtgtgc ctttcatcta taaggtgagg 360
 taatacagca gccagcctct tggccaaaac tcttgccata atttatagac a 411

<210> 17838
 <211> 427
 <212> DNA
 <213> Glycine max
 <400> 17838

tgagctcggc ttgagttgaa tacgtaattc ttgagctcgg cttgagttga atacgtaaag 60
 cttgagttga cataggcttt ttttaaggct ctgctcgact tacataaaag tctgacttac 120
 gagcctattht aaaagcttgc ttaaagacgt cttttattaa ttaattattht taaaacctag 180
 tgaaatacta actaaaaaaaa gaaacttata aaatttcgta taaataatgt acaaactctaa 240
 aaataattga taaacaaaat tatattgaat tcaagtcgtht aaagcacaaa gtatataaaa 300
 aaaataaaaa tagcataata ttaaaaaatg tatggattag agatgattta cactaatata 360
 gccaaacaaa aattattatt agttaaatta acaattttta atccaatttht tttaatatat 420
 aattata 427

<210> 17839
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 17839

agtttttgca gcttcataaa gcttttggac taattaaatt aatactttca aaattaaaga 60
taaataatttc atatatcatc atttttatat ttttattatt ttaaaaatga ccataatatt 120
tttatgtaaa ttaaaactagt tttctagggt ttttaaccata atatatgtat ttttcaaaac 180
ttccatttca aagaaaatea tttttattat ttttaagttca aaactcaaag aggaaaaaat 240
gcatgcaaac aaattcaaat aataagtatt ggctaaaata tttttattat gaaattaaat 300
tttttaagga taaataattt cattntttgg aatatttgat attttgattt ttatttgatc 360
cttanaagta acattgtaac aataaaaataa tttttttca 399

<210> 17840

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17840

agttttgagc aacttcaaac aacaacaact ttttactcgg atgtctgatt gagacccgta 60
atatatccag aacttcgaaa ttcaataccg aagctctgag caaattcaaa cgacaataag 120
tttttactcg tatgttcgat tgagtcccggt aatatatcga aacgctcgaa attgaagacc 180
gaagctctaa gtaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
taatattctg agacgcgcgg acttgaatgt cgaagctctg agcaaattca aacgacaata 300
actnttttcc tcggatgtcg tattgagtcc cgtaatatat cgagacactc gaaattgaat 360
atcgaagctc tgagcaaatt caaatgac 388

<210> 17841

<211> 408

<212> DNA

<213> Glycine max

<400> 17841

tcaacattca atatcgagcg tttcgatata ttactggact gaatcagaca tcagagtaaa 60
aagttattgt cgtttgaatt atctcagagc ttcggtattc cagtccgagc gtctcgatat 120
attacggcgc tcaatcagac aaccgagtaa aaaagttatt gtcgtttgaa tttgctcaag 180
gcttcggtaa tcaatttcga gcgtctcaat atattacgga actcagtcag acaaccgagt 240

aacaatztat tgtagtttga agttgctcag agcttcggca ttcaagtcct agcgtctcga 300
 tatactacgg gactcaatca gacatccgag caaaaagtta ttgtcgtttg aatttgctca 360
 gagcttaggc attcaatata gagcgtttcg atatattacg ggactgaa 408

<210> 17842
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 17842

agtttgtaac tttctcaaaa ctctcaaca ttgccttaat gaccctcaca ttttgcatg 60
 atgcttcacc aaagaaaatg gtatgatctg catatcacag gataactaatt tccactgagc 120
 ttcttccac caagaggcct ttaaactgat tttttttaga gcttctctca ttagaccctg 180
 taatccctca gccacaatat tgaacaggag tggggctaac agatcccctt atctaagtcc 240
 cttttgaggg aaaaattcag ctaaaggact cttattgatc aatatggaga caaaagctga 300
 tctaagacat cttttgaccc aagtaatcca cttagggtag aatcccatcc tcctaagcat 360
 atataccaga taatccctcac taactgaatc atgtgccttc tcatag 406

<210> 17843
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17843

ntgatttcct ttgtttcgga aacctttctt ttctcatgtg cactcaaact taatctccgg 60
 gttcgaagac aaccttcttt ctccctttgt tggcttgttt agcatagctt ttatttttcc 120
 tctcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc tttgcttgac 180
 cttctttatg cttaaaaaca gaaacattag gcataggcaa aagatcaaga ggagttagt 240
 ggttaaaacc ataaacaact tcaaaaggag aacaattagg ggtgctatga acagctctat 300
 tgtaagcaaa ttcaacatgg ggtaacaag ctccccaagt ttttaagttc ttcctcaaaa 360
 ctgtcctaag caaagtttcc aaagtcctat taacaacttc tgtttgcca tcggtttgtg 420
 ggtgacaagt gg 432

<210> 17844
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17844

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agcttcagaa acaaattcct attagccact gccttcaact tgcagaagcc cactgaggtc 60
tgctgatgga gttagctcat gcatttaggt accatcaaaa tatttaaagg taacgggcaa 120
gaaaaaataa tagcaactgt gtgtacattc tctcaagcct tctgaaatgc gcggaagaa 180
accccatgca gaagcctgac aaatcccaag aaactaagct ttccatctga gtgccttatt 240
caatcctgaa gtactacatg aacaggtact gatggactaa gcccaagttc ctgaaacgtg 300
tcaattgtaa agagctcagt accattatac atgtgatgaa ggattatact atatgcatct 360
gatagaaaat ctcattagag gtatatctat catgtngata aaat 404
```

<210> 17845
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17845

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ctcctatgca aaaacatcaa cagtgccgct gaacctgtct ttgtttctct gttcattcta 60
tcacaaagac ttaatcctca tgacagagaa gcttaagggt aaagttccct tgaggttgtt 120
gaaggccaag tgcaaaacgt gcaagccaga gataatattg aagaaatccg ggagggaggg 180
agcctatgat gttggcagag ttggcggaga agttctgaag tttggaagct tctcagagag 240
tataaggaat ctccaagcc tgatttttct gccctgaaag atttgcaagt tttgagcttg 300
agtcttaaca aactcactgg tccagttcca gcttctttgt tgggtctttt gtgggtcaaa 360
gttgtgaatn tgaccagtaa cttgtttcac gggccaatgt ctgtgtttgc tcattngntc 420
gaggtggata atgccctt 438
```

<210> 17846
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 17846

nttgttggtg taaaagcaag gcggtggag aagtattatc acgatctgct atcctcagaa 60
agtgattctg aagttaaaac tgatcagcaa agcatggagt caactgacag taatgggaaa 120
acaggtgcag attttggaca tatgccagaa aaatggaaag gagtcaaaag acagattgag 180
aaggtatttg cttttgatat ttcattccgta ttgctcttaa tactgtgata ttattggtat 240
gacactttaa acaagtttct tcttagtagt ctattatcat tgcttgtttg tgcaggatct 300
gcctcgaaca tttcctggtc atcctgcttt ggacgaggat ggtagatatg ctttgagacg 360
attacttact gcatatgctc gacataaccc ctcagtt 397

<210> 17847
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17847

tgactctaga tcttgtcatt ggcccccttta actcattaag tgtttctagg tccttgtgct 60
ctttggatag ccctctatta gcattgggtca gaatattcagc cagttgatct atggcaggaa 120
catgaacaac attgagttgt ttggtgagaa gtttctctca cacaaaaaat aaatccagct 180
ccatattgctt ggtttttgag tgaaaaacag gattatgagc taatgaaaca attctggtgt 240
tgtcacacaa aataatagga gtagtgtaag ctacttggag ttcagaaaga agagactgaa 300
tccaagtaac ttctgctgca atacgagcca tgcttctata ntttgctca atactcgacc 360
ttgcaacaac tgattgcttc ttagaccacc aagagatgag tttatgtcca agaaaaat 418

<210> 17848
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17848

taacatcgat tntttgaaga actgatgtta agaaatgtgc ggtggcattt tcataaataa 60
gttgacttaa ttaacatcgg ttttttcaaa acccgatgtt aacattgatt tottaatat 120
ggttttgaaa aattgatgtt aacatcaagt agttaacatc ggatattgaa acaccgatgt 180

taacttttaga aagttaacat cggtttttaa aagaaccgat gttaacattg acatgttaac 240
 attggttttg ttttaagaaac cgattttgtc tcattcataa gttaaaaccc caaaatccat 300
 tcccccccat gcgatcagtt accaaaatcc tttctccctt tcttctcat cgctcacgct 360
 cgaaagacct atgtgtcttc ctcactcaag ctgccgctga gggtcgtgtt caggttcgca 420
 ctggct 426

<210> 17849
 <211> 315
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17849

taagaaattg ggcctggagt tggagcgggtg atgattttcc ggtgtgtcgc ggcgacgggtg 60
 gaagttacgg tggcatccac acgcggcgca cgtttagcgag cgcgggttcgt tggggttgga 120
 gaaagaggag ggcattgaact caccgcaccc atcaagcgcg tggccaccaa tgctggctgc 180
 atggtttttg aggcactctt tgtaggcaac cgccgtagac ggtggctgnt gcggcgggtga 240
 cacgggtgggtg ggggtgggtgat ggtgatggtc cttgagggag ccgttgggtg tgaaagggtt 300
 tgggtggggta tcgac 315

<210> 17850
 <211> 387
 <212> DNA
 <213> Glycine max
 <400> 17850

agcttcttag tctcgggtga tgaagatgaa ttcatggcta cttcatgcac tcctctaattg 60
 acaatagcat cactcctggc actaaattgc tgggagtttg aagccatctt ctgaattaaa 120
 tttctggctt cagcaggggt catgtctcca agggctccac cattggcagc atctatcata 180
 cttctctcca tgttactgag tccttcacaa aaatattgga ggagaaactg ctcagaaatt 240
 tgggtggtgag ggcaaatagc acataatttt ttaaattctt cccagtattc atataggttc 300
 tctcctctac gctgcctaata gctgagata tcttttctga tgaatgtggt cctggaagca 360
 gggaacaatt tttctaagaa tactctc 387

<210> 17851
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17851

tgaaagcaaa ctggatgcgt tgggtcaactn ggtaacttaa cttttcttga atcagaaatc 60
 tgtacctgtc gcaaggggtt ggggtttgtg ctctctgtgt gaccaccata cagacctttg 120
 cccttccatg ccacaacctg gagcaattga gcagcctgga acttatgtct caaatatgta 180
 caatagacct tctcaacctc agcagcaaaa tcaaccacat gagagcaagt atgacctttc 240
 cagcaacaga tacaacctg gatggaggaa tcacctagc cttagatggc ccagccctca 300
 gcaacaacaa caacagcctg ctcttctctt acaaaatgct gctggcccaa gcagaccata 360
 cattcctnca ccaatccaac aacagcaaca acctcagaaa cagccaacag ttgatgcccc 420
 tccac 425

<210> 17852
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17852

agcttgtact ttttggcctc tagattagcc aatcctgcag cacatcgtag ctttgcaact 60
 gttactgctt catgggcatc tgggtgcctgt tctgccttgc taacatagct tgtaacatga 120
 gaaaattgac ccatttcaat gctgaccaga attgcactca tacacatatg aataatgtgc 180
 tttgatgtag tgcaataatc ccgagtagcg acataacttt taaaagcgtc cccaattga 240
 ccatgagcat agtaaaagtc tccaaaatca ttgaatccca tctaatagtc ttccttaatc 300
 aagtttgtct gcaaaaaata aatgcgatga acaaattgac aggataagga atcaatgata 360
 nattacgaaa aaacaggtct taccaaaata ctctcat 398

<210> 17853
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 17853

tatgcataat gaattagaag atgaccttct aatcagtga aaaatgccgc tgtccgacat 60
ctatcaaaga tgtaatgtag caatttatga acttgctagc tgtaaggaag cactaaaaga 120
tccaaaatgg aaaattgcaa tggaggaaga gatgtctatg atacacaaaa gaaaaacatt 180
ggagctgggt gaaaggcctg aagatagaaa aatcattaga gtaaatgga ttttcccaac 240
aaagctcaat gcagattcct cagtcaacaa acacaaagtg agacttgtgg ttaaagggtta 300
tgtacaaact tttggtattg attattctga tacttttgca cctgtgtcca gattagatac 360
aattcgattg gtgttaatag tggcttcaca aaagggttgg aaagtcttcc aattagatgt 420
caaattagct ttt 433

<210> 17854

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17854

gaccaagttt ccaacggaag cnggatttga tccttttagc ttgncnctag acatggacaa 60
tgcattgatg tttgtcaagt atccaacagt ggaaagaatt gatccatgaa gtttattacc 120
actgagttga agtgtttctca aattatccaa gtctcctatg gaagatggga ttgaccaga 180
naaatcattt tttagcaatt tgattattgt gagagaatga agtcttccca actcctcagg 240
aatagggcct gagagaatgt ttttaagatg ataagttggt ccaaatttgt caagtttcta 300
atagttgaag ggattgcacc aaagagattg ttggatgaca catcaagttt aacaagattt 360
gtcaacatac caaatgttgg cgggatgaaa ccattacaaa gattatgac cattttcaa 419

<210> 17855

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17855

atctntaac tgaatttgca acgttccaat tgatttcaaa atggtgtaat tgattacaat 60
atattggtaa tcgattacca gtgtatctga acgttgaaat tcaaaatcaa ttgtgaagag 120

tcacatcctt tcataaaatg ctttgtgtaa tcgattacat ggTTTTGGTA attgattacc 180
 agtgacaagt tttgaataaa aatcaagaga tgtaactctt tcaatggttt tcaggttctt 240
 ctaaagggtta taactcttct gatggtttta caaggttgaa aagacatctc aaggactgca 300
 ngtcgcttgg tgactggatg tatgcacggt ttgttgccga accagtataa actcttTGTG 360
 tttgtcttct tctaccctac actc 384

<210> 17856
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 17856

tctcgttata ttatgcacct gaatcagact tccttttgaa aagttatgac catttgaatt 60
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 cttctgtgtg ataagttatg accatttgaa tttctcgaga gcattcggtg ttcaattcca 180
 agcttctcga tatattgtgc acctgaatcg gacttccgtt tgaagagtta tgaccttttg 240
 aatttctcga gagcttccgt tgttcaattt caagcttctc gatataattat gcaccttaat 300
 cggactttcg tgtgacaagt tatgaccatt ttaatttctc aagagctttc gttgttcatt 360
 ttcgagcttc tcgatataatt atgcacctga atcggacttc cgtttgaaag atttga 416

<210> 17857
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17857

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 tatctgcatt tgcttttgaa acttctctcc ttagttcagc aaactgtctg tcaagcccgg 180
 gctttaactg cctaaagatt ctagaccgac ctcccttgcc agtgctttag catctatcca 240
 gatctagttg gaggtcagga aaagatcctt agcttccaaa acctgtgctt catttctcac 300
 ctaacttcta ttcacatagg aatcttacat agatagatcc cttcttcatg tggtttctct 360
 tngatcatag aaaccttctg 380

<210> 17858
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17859

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aggcaaaaga tcaagaggag ttagtggggt aaaaccataa acaggagaac aattagtgggt 120
gctatgaaca gctctattgt aagcaaattc aacatgggggt aaataagctt cccaagtttt 180
taagttcttc ctcaaaactg tcctaagcaa agttcccaaa gtcttattag caacttttgt 240
ttgcccatcg gtttgtgggt gacaagtgggt tgaaaataac aatttactgc ccaacttgct 300
ccacaaagtc ctcaaaaat ggcttaggaa cttagagtcc ctatcactaa caatgctcct 360
tggcaaacca tggagtctca caatctcctt gaaaaacaaa tcagccacat gggaagcatc 420
atcaactttt tt 432
  
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<210> 17859
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17859

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cataactatt cacacggatg ttcgattatg gccaatcaca tatcgagacg ctaaaaattg 120
aacagcggaa gctctcgaga aattcaaattg gtcataactt ttaacactga gttccgattc 180
aggattataa tatatacaga cgctcgaaat taaacattgg aaggtctcga gaaattcaat 240
tggttatcac ttttcacacg gatgtccgat tcgggcgtat aatatgtcga cacgctcgaa 300
attgaacaac ggaagctctc gagatattca aatggtcata actnttcaca cggatctcca 360
attcaggcgc atcgcatatc gagactctca aaattgaata gcggaagctg ttgagaaatt 420
taaattgtca taac 434
  
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<210> 17860
 <211> 408

<212> DNA
<213> Glycine max

<400> 17860

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cgctcctttt gaagatgatt atggctttta cccactaact cctcttgatc ttttgcttat 120
gcctaattgtt tctgttttta agcataaaga aagtcaagca aacgcggact atgtgaagaa 180
gcttcatgag agagtcaaag atcaaattga gagggaaaaat aaaagctatg ctaaacaagc 240
caacaaaggg agaaagaagg ttgtcttcga acccgagat tgagtttggg tgcacatgag 300
aaaagaaagg tttccggaac aaaggaaatc aaagcttcaa ccaacgggag atggaccatt 360
tcaagtgctt atagaataat gacaatgtta caaagtgagc tgccggtg 408

<210> 17861
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17861

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cccaagtcac gataggggta aagacatttg taccgtgttt aggaagtccc acacaaagac 120
atcatctccc aacaacatct ggaagaaacg gtcaatattc tttgatcttc catattgggc 180
tgatctacat gtgcgtcact gtctagatgt tatgcatgtg gagaaaaatg tttgtgataa 240
gtcaattggc actcttctta acattanagg gaggacacat gatggtttga aatattgtca 300
agacttattt gacatgggaa tacgagagaa gtgcgcatccc ata 343

<210> 17862
<211> 318
<212> DNA
<213> Glycine max

<400> 17862

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agagagaact gcccacacgc tagtgcaaga cacgtcggtc tccaccacaa agggaatgtc 120
gaagttggga agcgccaaga cgggagccgt gaagactgct tcctttaagg tggatgaatgc 180

tctcgtagcc aactccgacc accagaattg acccttgcac agcaactgtg agagaggcgc 240
aacaatctta gcgtaacctt taataaatct tctgtaaaaa cccaccaaac gcagaaaact 300
tcttaatgtc ttcactga 318

<210> 17863
<211> 400
<212> DNA
<213> Glycine max

<400> 17863

agcttaataa aaggtatgcg atgtgggtgg aattcctaga gcaattccct tatgttatca 60
aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgccttac 120
tttctatgct tgaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180
atgaaacttt tgaagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240
gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300
atttgcttgt ttgtgaagca catgaaggag gtttaatggg acattttggg gtccaaaaga 360
ctctagaaac attacaagaa acattttatt ggtctcatat 400

<210> 17864
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17864

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tgccaatcaa ggttgtctca cagacacctt ttgagttatt caaagggttg aatcaatgt 120
tgogacatat acgcgtctgg ggatgcctgt ctgaagtaag aatttataat ccacaagaga 180
agaaactaga ccctatgact attactacgt atttcattga atatgctgaa aggtctaaag 240
ggtataagtt ctattgtcca tcccactaca ctacgattgt ggaatcaagg aatgcatagt 300
ttcttgaaaa taacttgatc agtgggagtg atcaatttcn gaacatttct tctgaaaggg 360
atcactatga 370

<210> 17865
<211> 435

<212> DNA
<213> Glycine max

<400> 17865

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agaagaatgt gacattcact tgggggtgaaa gaaaagagaa agcattttct ttgctcaaag 120
aaaagctcac caaggcacct attctagctc ttcttgattt ttctaaaact ttcgagctag 180
aatgtgatgc ctctggagtg ggtgtgagag ctgtattggt gcaagggtggg caccctattg 240
cttatttttag tgaaaaactt catgggtgcc aacctcaaata cccacctat tataaagagc 300
tttatgcctt aataagagcc ctccaaactt gggaacatta ctgtgaataa tgcagggtttt 360
gatgatgcta aaaagaaatc acttgataat gattgtcatc atcaaaaacg cggagaatgt 420
gaatgtatga ataca 435

<210> 17866
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17866

ntgtatggta gaaggtgtac gacacctcta tgttgtctag agcctcgaga aaacctcacc 60
ttaggacctg aagtgggtaca acaaaccacc aagaagggtga agttgatcca agaaaggatg 120
aggactgctc agagtagaca aaaaagttat caggataaga ggaggaaaga tctggaattc 180
gagggttggtg atcatgtatt cttgagagtc actctgtgga ctgagggttg tgcagcattc 240
aaatcccgaa aactcacacc tttctttatc ggctctttcc aaattcttaa aagagtcggg 300
cctgtggcat accaaattgc attaccccca tcactttcta atcttcacaa tgtctntcat 360
gtatctcaac tccgtaagta tatacatgat ccatctcttg acatatgaaa catttccttt 420
gagga 425

<210> 17867
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17867

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 ggcccttgatt ttctcaaggt ccacttggac cccatttcta ccaactacaa accctaagaa 120
 aactatatta tctacacaaa aagtacactt ctctatattt gcatagaggg tgtttttcct 180
 aaggactgaa agaacttgtc cgagatgtcc taagttatca tctaggctcc tactgtacac 240
 taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
 cataagcctc ataaaggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360
 atacaaacca aacttgggtct tgaaagcggg tttccactca tcaccnttt catcctgatt 420
 gg 422

<210> 17868
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17868

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 cttacccttt tggatgtgac atcatggcag atagggtccca actttccatc gtggattcag 120
 tcacaaaaca aactttctata tgttggactg tctaacacag ggattttaga ttctattccc 180
 acttggttct gggaagcaca ttctcagctt ttgtatttaa acctctctca taatcatatc 240
 catggtgagc ttgtgactac aataaaaaat ccaatatcta tccaaactgg tgatctaagc 300
 acaaactact tatgtggtaa attaccctat ctttcaaatg atgtgtatga cttagacctt 360
 tcaaccaatt cattctctga atccatgcca gattttttat gtaacaatc 409

<210> 17869
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17869

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 tgaatcaaac atgaattaga aaagaaggtt aacttgcaat ttaatgtaga aaccaatttt 120
 gatatagaga ttaaatgaa attgaaagat ggcaagtata gcacatcttc taaatgtaaa 180

aactccgtaa atttgactgt tctagagtgt gtggctatga cttgttgacc agtangtagg 240
cgaactacta tcggatttat ttctctatat gtagtataac aagtcaatga ggaggcaata 300
tgatctataa aactagaatc caaaatctat gttgcagctt caggcttttg aacattacaa 360
acaagggata gtatattacc tatgc 385

<210> 17870
<211> 418
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17870

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aaagttcggt ttcgctcggtc tgccatacca ttcattgctag gttttcctac atagtgtatt 120
gcggaacaat tccacactct ttgagaaaaa atgcaaaagg tcttggaagt tctcttgatc 180
catcatatct gccattgtac tcgccaccac gatcagatct gagagcctta attttctttc 240
caagttgaag ttcaacttta tgcttgaaac tcttaaaaag tctagggatt gggacttcgc 300
atgcatcaca tacaagtaac cgtatctaga gtagtcatct atgaacaaga taaaatattg 360
ttgcctattc caagaagggt tnggaaaaag atatcacatg cccgtatgta ctaattct 418

<210> 17871
<211> 417
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17871

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catctcaatc atttgccatg cagcgtacat agtgcaaatc catgaaagga gcaatattgt 120
aacgccccaa cccctgccac aacaaagaaa catgcatgca tgaaggccat aacaatagaa 180
taatgataca gtataaacac tccataataa taattttatt ttctattcat tgactattta 240
ataagagtgt ttttaggtat atacaagaaa caaactctgg atacatattt attatgaagt 300
gatgatgcat gaaaagagaa gatgagaata ccatcctagc tctgacatgg cgtatgggat 360
accagcaca ccagctgcaa caacagcagt gacattgtga aaagcatagt accacca 417

<210> 17872
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17872

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 attatgtgcc tgaatcggac atcctagtga aaagttatga tcatttgaat tgctcaagag 120
 cttccattgt tcaatttcga acgtctcgat atattatgag cctgaatcgg acatccgagt 180
 gaaaagctat taccatttga attgctcaaa agattccatt gttcaatttc gaacatctcg 240
 atatcttatg cgctgaatc ggacatccga gtgaaaagct ttgaccattt gaattgctca 300
 agagcttcca ttgtccaatt gtgaacgtct cgatatatta tgcgctgaa tcggacttcc 360
 aagtgaaaag ttatgacca 379

<210> 17873
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17873

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 atcaatagag aagttgcagg tctttacagc ccagtaggct ttgtgctcta tctctacagg 120
 aagatgacat gccttgccaa agacaacccg ataaggagac attcctatgg gtgctttgta 180
 ggcagtecta tgcgccccaa gagcatcatc tagcctggtg ctccaatcct ttctgttcgg 240
 ctgcacaatc ttctcctaga tcttttttat ctccctgctt gaaatctcag tctgcccatt 300
 ggtttggggg tggatatggtg tgtgtcgcaa cctacccttt ggcgggcgag cgaggtgagg 360
 gctcacgggt gcgtcttcca t 381

<210> 17874
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 17874

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ggacactttc tggatccata ttatcaaato gaaccttctt gagtgaaca attgtatttg 120
 tttcgagatc acgagctcta taaacactgc tgtaagatcc ttggccaatc tgcacatga 180
 taggaaagtt aagtcattaa gaaaaagcta ttgggaaggt ttgaaaaatg taatgttggt 240
 gatggagata ataataataa ataagaaaagc aatgggtggag gctgtaatga ggatttgcct 300
 tatccaactt ctcaaaggaa tcagccctgc gaggtatcca accaataatg gcttcaccag 360
 caactgctgt 370

<210> 17875
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17875
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 attgtctctc tttgctgaat ttcttatttt tgtgaagttg atggacatgt gaaatgtgaa 120
 aagtggattc gtgatgacaa taatcgttct gaagagtgga aggcgacatg gtgggttaaac 180
 agattgatag ggcgaaaaaa gaaggtgacg gtagactggc catatccttt tgctgagggc 240
 aagttatttg ttctcaccat aagtgcggc ttggaagggt accatgttag tgtggatggg 300
 aggcattgta catcctttcc ctatcgacg gtgcataccc aaatcatatc tccttctgta 360
 tgcattgcagg aatattgtat t 381

<210> 17876
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 17876
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 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120
 gaagatgtcc agattgcaac tcttggtac aaaattcgaa aatctgaaga tgaatgagga 180
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg ataacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300
 atttgacatg aaagtcactg caatagagga ggccaagac atttgcaaca tgagagtaga 360

tgaactcatt aggttctcttc

380

<210> 17877
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17877

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accgggtcta caacttccaa actaagaaac tcgtcatcag tcgagatggt gaagttgatg 120
aatatgcttc atggaattgg gatgaagaaa aagtggagaa gaacgttctt atacccgctc 180
aactaccta agaagaagat gaggaagaag acccaggtga accactttca cctccatcac 240
aacaacaaga tcaagaacta tcataccag agtttactcc aagacgaata agatctttgg 300
tgacatata tgaaacctgt aacttggcca tacttgaacc tggaagctnt gaagaagcat 360
canagcagga agtatgggtc aa 382

<210> 17878
<211> 369
<212> DNA
<213> Glycine max

<400> 17878

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acgtcctctg tcaattctcc gtgaagaaat gcgcttttga catctagtgt atacacattc 120
catccctttt gtgctgctag agctaaaacc atccggattg tgtccacact tgctaccggg 180
gcaaacactt cgttgtagtc aatcccttgt tgctgagcat agccttttagc tactagtctg 240
gctttgagct tatcaacttc accattctca tttaacttgg ttctaaaaac ccatttcact 300
ccaatcttct tagcaccttt gggcaaagtt gtaagctgcc aggtttaatt ccttttgatt 360
gcttcaatc 369

<210> 17879
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17879

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ttagttggac atctgctgag tatgtaaaca gcagtgtaga ctgcttcagc ccagaatgtg 180
ttaggtagtc ctttttcctt gagcatcgat ctagccatct ccataactgt gtgattcttt 240
ctctcggaca ctccattttg ttgaggagaa tatgcgactg taagttgtct ctcaatgcct 300
tcatectcac aaaatctttc aaactcgca gaggtgtact cnttgccacg atcgcttctt 360
agtactttta tccgttttcc ac 382

<210> 17880
<211> 384
<212> DNA
<213> Glycine max

<400> 17880

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agtataatgt tacttcttct actaaagcgg tgatccatct ccacacatat tttatcaata 120
gcaacataaa aaatctctac acggtaatga tgaagattag tgatagtcct cccttctgct 180
cttgaacgac cccgaactgg tatttcgtca tccatatttg gtaccagaat acttttagca 240
acacaaaatc cttggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300
aaccgagctt tgacaacatc aactaattcc atggcattca caatattaag atcttttctt 360
tgcaatatat ttgaaagctc gttt 384

<210> 17881
<211> 377
<212> DNA
<213> Glycine max

<400> 17881

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aggtgctgcc aatgtgctaa aatccttcac aaatcgtcta taaaaacttg ctaagccatg 120
aaaactctct acctcggta cggacttagg tgtaggccat tcttgaatag ccctaactt 180
ctctcatca acttgactc cttttgaact cacaacaaaa ccaagaaaca caacatggtt 240

agtacaaaag atgcattttt caagattggc atacaattgt tcttctctaa gcacagtcaa 300
 ggcagatttt aaatgatcaa tatgcaaate aagtgaagtg ctatagataa gaatatcatc 360
 aaagtacacc acaacga 377

<210> 17882
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17882

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 ttacatgcac cttgtccata ttttgccttg tacccttaa tacatgataa actgttctac 180
 cagaaataac caagttaact gattgtcacc atatatagat cgctgggtgag attgaaaaaa 240
 tcatggaatt tatgctatag ataatatgca gtcaggaaaa atggaattaa gattagctat 300
 caaatcatat gtaataccta cctaagaacc taatattagc acagaaagta atatctgaac 360
 tcaccaattc acactcacc 379

<210> 17883
 <211> 351
 <212> DNA
 <213> Glycine max
 <400> 17883

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 ggaatggata aggaagagag agacgagatg ccaattcaag gagaagatga gtgtacatga 180
 agctcaccac cgtatgatgc cctggattag agcttggatg aggaacgaga tgaatgattg 240
 gagaggatga taagagcaca aacctgcgtg ctctaatagt actctgacaa ctgatggtta 300
 attgtcaa at gatcaacgtt gatgaaatgc acacacatgg cctctatata t 351

<210> 17884
 <211> 372
 <212> DNA

<213> Glycine max

<400> 17884

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attatatattg ctcttatgct tcttatttaa aaaaatatgc gtcctttgac tcttacacac 120
caagagtaat ttattgttga ttcccatatt ttatgtttac ataqtattc attttcttat 180
caaccaaatt ttagctaaat aaaagtattg ttttatatct taattataaa atatataaaa 240
acaaaatatg accaaacttt aatctaaaat agtaaattaa ttaaaaatat aatgtatat 300
tagtacttgt aacaaatata atatattata taaatgtata aaaataactc acttataaac 360
gtataagttt gg 372

<210> 17885

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17885

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acaaagttga actgcccggg gagtataatg ttagttccac cttcaatgtc tctgatttat 120
ctctttttga tgcagatgga gaatccgatt tgaggacaaa tccttctcaa gagggagaga 180
atgatgaaga catgaccaag agcaagggca aggatccact tgaaggactt ggaggaccta 240
tgacaagggc tagagcaagg aaagccaagg aagctcttca acaagtgtg tccatactat 300
ttgaatacaa gcccaagttt caaggagaaa agtccaaggt tgtgagttgt atcatggccc 360
anatggagga ctaaagaca ccac 384

<210> 17886

<211> 370

<212> DNA

<213> Glycine max

<400> 17886

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cctatgcaag ttgaaagcct tggaggaaaag aggtatgcct atgttggtgt ggatgatttc 120
tccagattca cctgggtcaa ctttatcaga gaaaaatcag acacctttga agtattcaag 180

gagttgagtc taagacttca aagagaaaaa gactgtgtga tcaagagaat caggagtgac 240
catggcagag agtttgaaaa cagcaagttt actgaatact gcacatctga aggcatact 300
catgagttct ctgcagccat tacaccacag caaatggca tagttgaaag gaaaaacagg 360
actttgcaag 370

<210> 17887
<211> 375
<212> DNA
<213> Glycine max

<400> 17887

agcttcaaag gcttagacaa gggactatga gtgttgaaga atatagacaa aaaatggaat 60
tactcctttt aagagctgga cttatggagg aggaagaac aagcatagct aggttcctta 120
gtgggcttaa tatggaagtg agggacaagg ttgaactcct tccatatagg gacctagatg 180
agctagtcca actttgtata agagtggagc aacaacttaa aagaaagcct tcttcaaaat 240
cttatggctc tcaactcttat ccaaggaagg accaagccta tggaatttta ggggctgcac 300
cttcaaaacc caaggaagat aagggtgaaga ccatagagaa atacaccctt aagactagtt 360
occaagaaag gacta 375

<210> 17888
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17888

agctttcttn ccagcttcaa actttaatct tcatggaact catgttggtt cccctatctc 60
ttacaaaaat tgcacttact cctaaaaagg aacattgttt tataacaaat taaggaattt 120
tactaaatg attttattaa caataaatg tttaaagatg agacatagaa tccattctcg 180
attgtaagtt ctttttaatc taacaaataa gttcataatt ttcaacttat cagagaattg 240
tctaatactt aatatatata ataatagtaa ttgcgataaa gatattcata gataattata 300
gtagtatcgt ataacagttt gtaatatact ttgtaagtag attntatgat agtgttttcg 360
attaanaagt aaatttcaac aatt 384

<210> 17889
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 17889

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agcttttctg cccatcttgg agaggttaac gaacaaacga gatgatgcgc tccatgagag 60
gttggaatag agatcataat gaagaagaaa ggaggagaat agggaatgat ggtgttccta 120
gacaaaaccg aattgatggt attaaactca acattcctcc atttaaagga aagaatgatc 180
cggaggccta cttggagtgg gagatgaaaa tagaccatgt tttctcatgc acaactatg 240
aggaggacca gaagtgaaag cttgccgcca cggagttttc cgactatgct cttgtgtggt 300
ggaacaagct acaaaaggag agagcaagaa atgaagagcc aatggttgat acatggacgg 360
agatg 365

```

<210> 17890
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17890

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agtctttatt caactcaaac atggcaagaa gacagtatat actaggcact gaagatttct 60
taaaccttat caccgtacc gactattgaa gaaagctttt aatgaaagct aggagaataa 120
aagtgtcct tgaccattag ctagaaatga agtttatgat caggtgaagg acatcataac 180
tatctttggg aagacccaaa gccatcatct aagactaacc tatggaagaa aaggtcaata 240
ttttttatct tccatactgg ttcgatctac atgtatgtca ttgtctagac gtaatgcatg 300
tggagaaaan tttttgtgat agtttaattg gaacccttct taacattaaa ggcaagacaa 360
aggatggttt gaaatgtcat caagacctgg ttgacatgga aatacgagag caattgcatt 420
tgatat 426

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<210> 17891
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 17891

tacattacat atattacagc atttcagtcg actgtgaagt gtaaaacaca atttagattg 60
gatagaacag ataaagggag aatgttcaat taccatagca tggcaatagc tgaccccaga 120
tatgagtcgc tgaaagaaga atccagcctg aatcataaca acggggttaca aactatcgca 180
gaataagtac aaacttatag cattcaggtg tagaataagt aaacaaata aataagaacc 240
tcatectcgg taaaacgccc agcattgcag attattttaa agagctcttc cccagatgca 300
tattccatta caatagcaag atg 323

<210> 17892
<211> 414
<212> DNA
<213> Glycine max

<400> 17892

agtttgttta tatttgcaac ctttctgatg ccagaaaacg ttatcaatgg accggaaaca 60
acatcgcgctg ttactaaata cctcatgtaa ggctctgcat gagcctccaa ataaggaagt 120
ccttcgatct taagtatttg atcatagaca cccttggtga agctgtcagc cacggatttt 180
gagaccaata agactaacat cacaagtgga agtaacaaga gatcattaga gagctcaagc 240
aatatgacac aaagagacac tgtcattctc atgggtgccac caaggaagga agcagctcca 300
agtaaggcaa agagtcctct gtcgagatcg gtaatcggtt cgaagagccg gtcgaataga 360
ctgccatagg cagcaccagc acgtatgacc ggaatgaaca gcccggatgg aata 414

<210> 17893
<211> 445
<212> DNA
<213> Glycine max

<400> 17893

actattcaca caatttaaca agaaacaatg aattatcaac ttgaaaatt aattgcattc 60
ccatacctag atctccttct aaattccacc gaatttatat atgtttaaat gcatggaagc 120
aaggattcaa gactagctgt ggatctttta ttggtcttga tgggtgtttt ttgaaaggct 180
actatggtga tcatttgctt gcagcagcgg gacaagatgc aaacaatgca ttttttgtga 240
ttgcttatgc ggtagtaaat gttgaagata aagataactg gaagtgggtc ctcacattgt 300
tacatgaaga ccttgagac tgcaagcaat atggctgaaa ttttatgtta gacatccaaa 360

aagtgcatt caattgtttt gctttgatca attcatatat agaattgtgt aattctgatt 420
gcctgcatgc atatgtgata gtttg 445

<210> 17894
<211> 407
<212> DNA
<213> Glycine max
<400> 17894

agtttcttga gagagtcaaa gatcaaattg agaggaaaaa taaaagctat gctaaacaag 60
ccaacaaagg gagaaagaag gttgtcttcg aaccggaga ttgggtttgg gtgcacatga 120
gaaaagaaag gtttccgga caaaggaaat caaagcttca accaagggga gatggaccat 180
ttcaagtgc tgaagaatc aatgacaatg cttacaaagt tgagctgccc ggtgagtata 240
atgttagttc caccttcaat gtctctgatt tatctctttt tgatgcagat ggagaatccg 300
atgtgaggac aaatccttct caagagggag agaattgatga gggcatgacc aagagcaagg 360
gcaaggatcc acttgaagga cttggaggac ctattgatga ggacatg 407

<210> 17895
<211> 454
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17895

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ncaattgcga gcttctcgat atgtgatttg cctgaatcgg acatccgtgt gaaaagttat 120
accagttgaa tttctcaaga gttccggtg ttcagttttg agcgtctcga tatgtgattt 180
gcctgaatcg gacatccgtg tgaaaagtta tgaccatttg aatttctcaa gaccttccga 240
tgatcaattt cgagcctctc gacatattat gcgaccgaat cggacatccg tgtgaaaagt 300
tatggccatt tgaatttctc gagagtttac gatgggtaag ttcgagcgta tcgatatagt 360
atacagctga atcggacatc cgtgtataag atttgaccat taggattcct cgagaacttc 420
cattgttcaa tatcgagctt ctcgacatat taag 454

<210> 17896

<211> 442
 <212> DNA
 <213> Glycine max

<400> 17896

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tctctgtctt catggaccaa aggtgtcatt cctgtgttgt ttatatgaat ccgttgcgac 60
gaatgcctct ctgtgaccgc tataactgtt aaaaatcttg ggctacaacg tactctccac 120
gctctaaaac tctcatccta tcccaaactg ctactatgg atattagcca caacagtact 180
agtggaacta ttctcagca aattgctaac ttgtacagag aactcaatt gataatgagt 240
gctaataatt ctagagggtcc aatccacat tacatgagga agttggctag ctctgcaatt 300
ctaaacttcg aatacactac actctctggc tctattcttg aagagattgc atactaccag 360
aacttgaaga gtctattact tcaatggaat caactttcag gtaccatacc tccaacaact 420
ggaaggttgt ccaaccctgt ta 442
```

<210> 17897
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 17897

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actactatag aaagacactt caatctgtat taggcttcta ctggtgaaaa ccgagttgaa 60
gccgatgta gaatgtatgt tgttacatcg atttaaaaaa ccgatgttaa cataaaaatg 120
ttaacatcgg ctttataaat aactgatgtt ataaagaaag aagtacaaca aaatatgtgt 180
atgcgtgagg gacgttgaca tcggttttct gctaaaacca atgctaatat gttaatatgt 240
tatattaaca tcacttttta taggaaaccg atgtgaacgt tcatcattca tgcacctatt 300
ttgctgtaat aatgtatgta taacatcgat tatctataaa taaccgatgt taacctatgt 360
acattaacat c 371
```

<210> 17898
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 17898

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ttgtttatcc aatcagatgg gacaattggc tacccaattg aatcaacaac aatcccagaa 60
```

ttctgacaag ctaccttctc aagctgtcca aaatcccaaa aatgtcagtg ccatttcatt 120
 gaggtcggga aagcaatgta aaggacctca acccgtagca ccttcctcat ctgcaaatga 180
 acctgccaaa cttcactcta ttccagaaaa aggtgatgac aaaaatttac ctaacaattt 240
 ctgtgcaggt gaatcttctt ccacaggtaa ttctgatttg cagaagcagc acattccccc 300
 gcttccattc cctccaagag cagtttccaa cagaazaatg gaagaggcag agaaagagat 360
 cttggaaaag tttagaaaag tagaggtaaa catacctctg ttggatg 407

<210> 17899
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17899

tgannattga gtgaggaaaa natgtctctc actaagctta ttcattactt ggtaagatta 60
 caaaatatat agagaaaaga tggagagag agacagccta ctctcaggcc tatctctgct 120
 aacttctcag ataagcaaaa tattacatca gtcatacatc aagtaaagca agatattcaa 180
 cactccccct caagctggag catataaatc atatgcacca agcttggaac atatagattg 240
 aatcctaggt cctctcaagg acttagtcaa aatatctggt ggctgatcat tggaactaat 300
 gaactcagtg acaatctcct tggacaatag tttctccoga atgaaatgac aatcaatctc 360
 tatgtgctta gttctctcat gaaaaacag attcgaagca atgtggagag cagcctgatt 420
 atcacaatat aacctcatnt gcccaacttc acanaatctc 460

<210> 17900
 <211> 474
 <212> DNA
 <213> Glycine max
 <400> 17900

ctcagaacac tcaagcttgg aacctatggt ggtgatatgc taagatggac gtgttgactt 60
 gtttactcct ctaataaaga gtacaacaaa ttttgtgttt gatgatttag gttttctctt 120
 tttctttctt gttcatatgc aacgttcatt tttttctctt atttgcttct attctatctc 180
 ctatctctat atatttggca tgggtgtctt cgactatctc acgttccaat tgagatgaga 240
 gataagaatt tatctaatat ttgtgtcttt tttatacctg tatataataa tcacattttt 300

atactataat taaataataa gataaattgt ataaacttta gcacaataga aatgcagacg 360
cgagaactat tactaaaaat acatatagaa tttattaatt ttgggtaata gttaacaaaa 420
atcaaaagag tgtagtggag atggtgacat tttaaaaagt taatagcaaa agag 474

<210> 17901
<211> 411
<212> DNA
<213> Glycine max

<400> 17901

tttcttgctt tgaaaacttc ccttcaccct aggccctaga aactacaatg gttgagtgag 60
aatggggagc tagttgtaga tataacaagt ttgctatgct ttttcattgg aaaatatgtt 120
gatgagatac tgtttgatgt agtccctatg gagcctagca atctcttacg tggaaggcct 180
tggcagtatg ataaggatgt tggtcataat ggtgtcacia acaaatttgc atttgtacat 240
aaaaggaaaa aggttaccct cacacctatg tctccaagt aggtttgaaa ggatcaaata 300
atatatgaga gtgataagag aacaagagac taaagtgaaa ctttgtaaca taagacacca 360
aactgaaaca tagataaagt atcttattac acaatttgac tattattact a 411

<210> 17902
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17902

tatagttatt ggaggagaa taaaacaatc caaaatttat tgtacctttc aagtaacgaa 60
gaattctttt tgcggctttt agattaggag aggtaggagc ctccataaag cgacacacaa 120
ctcccaccgc atatagaata tcgggccttg tattgggttag ataccttana ctcccacaa 180
gactcttgaa gatcgaggag tctaccttct ctcttcatc aaactttgat aacttcaagc 240
caccttccat aggtgtgttc acaggattgc aatcaagcat attaaatttc ttcaaacactt 300
cttttggtga cttttcttgt gagacaaaga tacaccattc tttgtttgct tcacttccat 360
tcccaagtaa tatgacatga gtcccatatc tgatcatatc aattcacgag acatggactc 420
cttgaagtct tcaaacaat tt 442

<210> 17903
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17903

tataaaacta agcttacaag caagcttcca tcacaatgat tggccaacat taataatgtg 60
 aagaggatgc ttgaatatat gggttaaatc cttctgtgca taaaccgagt cgcacattcc 120
 gcagatcaac aacaaaatct gcatgtaccc gatcaaagtg ctttcaggct tcaccatcag 180
 atggatggcg taacatgcct gaagatcttc tattctcata gtgccatgac atttgtcttg 240
 cagtttgtat tgatgcaaat agtctttaca accttggaat tataggcaaa taaaacatct 300
 cctttattag aactggtttt ttgttgcttg ttccaacagt cttcgcaaa tacctgngct 360
 tgttacanaa attgcattca attaaagctc catcattgtt ataatacaac atgaagcctt 420
 ccacaaaaca gtcaatcctc ttagcctcca atcccaactt cgatact 467

<210> 17904
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17904

ctcaagctgc ctccctttta gggcattttc tgccacaatc tagttgctta caatcgttac 60
 ctttgcatta gtaaaaccaa tcgcatgcta atatgtaaaa tgtaaaatat aataaaagta 120
 aagaattaaa tatgtactaa tggtagtca atttctcatc tcatttgtgt tgacttgttg 180
 catttaacga atattctctt ctcttattga cggacatata ctactacat gaattctaatt 240
 tctacttgct tatgaaggta actctgacta taataatggt ttaagtaaata aatatataac 300
 ggaaaaatta taaatgtcgt ctttattaaa gggtagacagt gaccaacgta ctttaattatc 360
 aaaatgaaat ataaataaga taataatgtt agatcactan ggctaaacct ttgtcaagat 420
 gtgaatcaat acttgccatt gatcct 446

<210> 17905
 <211> 411
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17905

agctttgagc caattcaaac gacatattct ttttactcgg atgtctgatt gagtcctgta 60
atataacgag acgctcgaaa ttgaatattg aacctctgag gaaattcaaa cgacaataac 120
ttttttctcg gatgtttgat tgagactcgt attatatcga gacgctcgaa attgaatggt 180
gaagctctga gccaatcaa acgacaataa ctttttactc ggatgtctga ttgactctcg 240
tcacatatcg agacactcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
actttntact cggacgtctg attcagtcct gtcatatatc gagacgctcg aaattgaatg 360
ttgatgtctt gagcaaattc aaacgacaat aactttntac tcggatgtct g 411

<210> 17906

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17906

ggaccttaaa actaagctta ancattcaat ttgagcgtct cgtaatttta cgggactcaa 60
tcagacatcc gagtaaaaat ttattgtcgt ttggattggc tcagagattc aacattcaat 120
ttcagacgctc tcgatatatt acgggcctca atcagacatc cgagtaaaaa gttattgtcg 180
cttgaattgg ctcagagctt caacattcaa tttcagacgt ctcgatatat gaccggactc 240
aatcagacat ccgagtaaaa agttattgtc gtttgaattg gctcagagct tcaacattca 300
attttgagcg tctcgatata ttacgggact caatcagaca tccgagtaaa aagttattgt 360
cgtttggatt ggctcagaga ttcaacattc aatttcgagc gtctcgatat attacgggac 420
tcaactcagac atccgagtaa aaagttattg tcgtttgaat tagctcagag cttcaac 477

<210> 17907

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17907

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gtggatgggt tgttttagga ataagagcca agaacgaggc attgctgcct ataggaagc 120
taccatgaat atggaattca tccacaaatc tctgaattc aggtttcaaa acccccaaa 180
attccttaat aaaattgaaa ttaaagccat ttggccccgg acatttgtct ccaccacaac 240
tccaaacaac atctttaagc tcttggtctg aaaaaggggc agtcaccccc tctttgctc 300
tgatcaatca tagggaaata taccatcc agagaaggc tgaacaattt atcttcagta 360
aatctatgga gaaagtatnt gagaacttca ttcttgacta aattaggctg ctgaacccat 420
acaccatcaa tgaagattcc ctgacaagca ttgaagtttc tt 462

<210> 17908
<211> 458
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17908

tgtagcanat ntaattacag aagcaggtgc aaatcgtgta cttgcttgctg acctccattc 60
tgggcagtc atgggctatt ttgatattcc agttgatcat gtgtatggcc aggtaacgga 120
ttattatgtc actagcatat agtaatagca tggaagaata aaaagcattt aatctattaa 180
actcaaacaac acatggcttg gatgtgttg atattagtaa tttgtaattg atagtccatc 240
caataatttg ttaatttatt gtatttatgc atctcaagtc tgaattgaaa tgaagggaca 300
accttctgga aacatgctta tttactgtt tatagttata tgatcattta aatttacgat 360
ttctgtagta aagaaacttc aaatctagtt ttcttttagac gtgctaaaat cttctattgt 420
tctattttatc ccagatcagt cacacatgga ctctaattg 458

<210> 17909
<211> 390
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17909

agtttgtaat tcttgatccg cagataacat aggtggtaaa gtttgggact ggaacgagtc 60
accaatggct ttcttgagga aagagaaata aaatgtcaga tgaattttac tgtgagatgg 120
aagatccaac ttataagcaa caacaccaac cttgtttaac acctggaaag gaccataaaa 180

ccaaggggag agtttttcat taatcctttt agccaaggat cttctcctat aaggttgcatt 240
 cttcaagaac acccaatcac cgactgcata ttctatgtct cggtaggcatt tgttggcatt 300
 tgctcacatg atatcttgag acttcaacaa attttctctt agagtagcca ataattcatt 360
 ccaagaaatt nttagtttat tgacttcttc 390

<210> 17910
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17910

tcttagccaa cttgcttcct cactagcagt tgctagtgtc atcatctcag attccatagt 60
 ggactgagct aagatcattt gtttctttga cttccaagaa acagccccac cagctatgct 120
 aaatatatag ccgctggttg ctttggaatc atctgagaga gtgttccaat ctgcatcggt 180
 gtatccttca agtacagcgg gaaacctttt ataatgtaat ccaagattta tggttctttt 240
 aaggtaacctc attacccttt caatagcgtg ccagtgtctc atactaggtc tactggtaaa 300
 cctgcataat aatcccacaa cataggctat gtcgggtcta gtacaatcag tggcatacct 360
 aaggctgcca atgatacttg cgtactcagt ttgtcgtata ctttcaccag tgttcttaaa 420
 cagttntaca ctnggatcat atggtgtact 450

<210> 17911
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17911

gaacttaaatt ctaagcttca tgtaaagatg ggcgaagagg gatttattac tttcgaactt 60
 atacacacag atctaattggg gtcgacaaaa acacctagat atagtggatg tatagatact 120
 atggcagtat atgatgatta cactcgatat acttggttgt atttcctaaa agagaatagt 180
 gaagttacgc ataagtcagn tattttctct gacatggtgg agaaagaccg tgatggaaca 240
 atcaaattgct tgacgagcga ctatggatga gagttcaagt caacagattt cacagttttt 300
 tgcctgaga aaatggatcc atatgcaatt tacttgtcca gataactgc aacaaaatgc 360

agtggtgag aggaaattat ctcatctaac ttagtgagc ttgtcatgga tacatgacaa 420
 aaatctgcct cgagagatat angcagaagc aattc 455

<210> 17912
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 17912

agttttattct aagttcaacc taccaccctc agactgatgg ccaaactgaa cggaccattt 60
 agtcactaaa ggacctttta agagcatgtg tattagaaca aaaagggagt tgggagtgtt 120
 ttctgttggt gatagagttc acctataaca atagttttca ttctatcatt ggcattggctc 180
 catatgaagc tttgtatggt agaaggtgta ggacaccctt gtgttggcta gaacctggag 240
 agaacttcac cttaggacct gaagtggtag aacaaaccac tgagaaggct aagttgatcc 300
 aagagaggat gaagattgct ctgagtaggc aaaagagtta tcaagataag aggaggaaaag 360
 acatggaatt cgaggctggt gatcatgtat tcttgagagt cacctcttgg act 413

<210> 17913
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17913

ntatgcaagt cagctttcaa gaggcattct ggagatttct tttttttcat atcngcgcaa 60
 aatctcttga attatgaaga tgttgccat catctttttg ttcttaatga aagcagtttg 120
 agtttcccca ataatagtct caagcactgg ggctatgcgg ttggccagaa ttttagacac 180
 aatcttgtat aacaaattac agcacgatat gggcttaata tgattaacct gtgaggcctg 240
 atcatgctta ggaataagcg caataatagc atggttgagc tgcttttagaa tttctccagt 300
 tgtaaagaat tcattatccg cttcaaagat atcatgacca gtgatattcc aagccttctt 360
 gaagattaaa acattgaaac catctggccc aggagctcta ttgttattca tcacagacat 420
 aacgttccaa acctctt 437

<210> 17914

<211> 412
 <212> DNA
 <213> Glycine max

<400> 17914

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agcttgctct acttgaaaag cctcttttga atggtgactc taatgtaagc aacaattatg 60
ttcccattaa ggetagagga atggaattt taacctggta ttcaatggtt cyatttttca 120
gcattcttac tttctcatgg atgattcctt taataactct agggaatgag aagactttag 180
agcatgagga tctcccatat cttgctactg atgacagtgt ggatgggatt ttgccaactt 240
ttacaaacaa acttgagtca gagtgtggta atgtgataac aaccctactc tagtttcata 300
acaaccctac gaaaatatga ggttactgca cacatgaaca aactacact agtgtgataa 360
caaccctgct tacactatgc aaacaaccct gcttcacgtg tatgtttgtg at 412
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<210> 17915
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 17915

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tctcgagaaa ttcaaattgt cataactttt cactcatatg tttgattcag gcgcataata 60
tatcgagacg ctcgaaattg agcaacgaaa gctctcgaga aattcaaattg gtcataactt 120
ttcaactcga ggtccgattc acgcgcataa tatatcgaca caccgaaat tgaacaatag 180
aagctctcga gaaattcaaa ttgtcataac gtttaacacg gaggaccaat tcacgcgcac 240
aatatatcta gacgtcctaa attgaacaac ggaagctctc gagaaattca aatggacata 300
acttttcact cggaggtccg attcaggccc ataatatatc gagacactcg aaattgaact 360
acggaagctc tcgagaaatt cacatggtca taacgtttca ttccggagatc cgattcaggc 420
gcataatata tcgagacgct cgaaattgag caac 454
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<210> 17916
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 17916

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agcatgcttt acttgaaaag cctcttttga atggtgactc taatgtaagc aacaattatg 60
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ttccccattaa ggctagagga aatgaaaata taacctggta ttcaaagtgt ggatttttca 120
 gcattcttac tttctcatgg atgattcctt taataactct agggaatgag aagactttag 180
 agcatgagga tctccacat cttgctactg atgacagtgt ggatgggatt ttgccaactt 240
 ttacaaacaa acttgagtca gagtgtggta atgtgataac aaccctactc tagtttcata 300
 acaaccctac gacaatatga ggttactgca cacatgaaca acactacact agtgtgataa 360
 caaccctgct tacactatgc aaacaaccct g 391

<210> 17917
 <211> 407
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17917

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 gcacagtggc caaagatgca tgggagatcc tgaaaatcac tcatgaagga acctccaaag 120
 tgaagatgtc cagattgcaa ctcttggcta caaaattcga aaatctgaag atgaacgacg 180
 aagagtgtat tcatgactta cacatgaaca ttcttgaaat tgccaatgct tgcactgcct 240
 tgggagagag gataacagat gaacagctgg tgagaaagat cctcagatcc ttgcctaaga 300
 gatgtgacat gaaagtcact gcaatagagg atgcccaga catttgcaac atgagagtag 360
 atgaactcat tggttctctt caaaccttng agctatgact ctggat 407

<210> 17918
 <211> 370
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 17918

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 aactatcgtg aatgggagag aaatgttcat ctaaagcata caagccocta atattatcaa 120
 atcctaaaat tcgagctcct agggagcaaa ataatgtgag tcttctagag agggcatcaa 180
 ctaccacatt tgttattccc tttttgtatt cgataacata tggaaattgc tctaggtact 240
 ctaccatttt tgcattgctc ttgtttaact cgctttgccc tctaattgtac ttaagtgtatt 300

gatgatcact atgaatgaca tatcccttgg aaacaaagta atgttcccaa gcttgggaagg 360
ctattattaa 370

<210> 17919
<211> 417
<212> DNA
<213> Glycine max

<400> 17919

agctttcact ctgaggcccg attcaggcgc ataatatatc gagacgctcg aaattgaaca 60
acggaagcta tcgagaaatt caaatgggtca atacttcgaa ctcgagggtc ctattaaggt 120
gcataatata tctagacgct caaaatttta caatggaagc tctttggcta taaaaatgg 180
cataactttt cactcgaagg tccgattaag ggcataata tatcgagacg ctcaaaattg 240
aacaatggaa gctcttgagc aattcaaagc gtcataactt gtcactcgga ggtccgattc 300
agctgcataa tatatcgtga cgctcgaaat tgaacaatgg aagctcttga gcaattcaaa 360
tggtcataac ttgtcactcg aagggtcgat tcaggcgcat aatatatcga gacactt 417

<210> 17920
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17920

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ggatcaaagc gagaatagag accatatgaa ttgctcaaga gcttccattg ttcaatttcg 120
agcgtctaga tatataatgc gctcaatcg gacctccgag ttaaaagtta tgaccatttg 180
aaatgctcaa gagcttccat tgttcaattt cgagcggtcac gatatatattat gcacctgaat 240
cggacctgag agtgacaact tatgaccatt tgaattgctc aagagcttcc attgttcaat 300
tttgagcgtc acgatattat atgcacctga atcgacctg cgagtgacaa cttatgacca 360
tttgaattgc tcaagagctt ccattgttca atttcgagcg tctcgatata taatgcgcct 420
caatcngacc tccgagttaa aagttatgac ca 452

<210> 17921
<211> 458

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17921

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ttgatcttac cagtcgtat ccccaaatca ggatgacaaa gggatgatgag tggaaacccg 120
ctttcaatac caagtttggg ttgtatgaat ggctagtgat gccttttggg ctactaatg 180
caccaagcac ctttatgagg cttatgcac atgtcttaag ggatttcata ggtagatttg 240
tagttgttta ttttgatgat attttagtgt acagtagaag cctagatgat cacttatgaa 300
atctcagaca agttctttca gtccttagga aaaacaccct ctatgcaa atagagaagt 360
gtactttctg tgtagaatat atagttttct tatggtttgt agttggtaga aatggagtcc 420
aagtggaccc tgagaaaatc aaggccatcc aagaatgg 458

<210> 17922
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17922

ntcagaagat gtaagttcaa catgcttttc ttccatttct gttggaggat ttgtgggatg 60
ctgtcttatac attttttggg atgtctaact tactggactg gttctcctac tgtaggtcga 120
tctagagaga attgcaaaag atactcatgg atatgttggg gctgaccttg ctgccctttg 180
cactgaagtt gctcttcaat gcatcatgga gaaaatggat gtcacgatt tggagatga 240
gagcattgat gctgaagtac taaattctat ggcaatgaca aatgagcatt tacatactgc 300
tctgggaaca agcaatccat ctgctttacg agatactggt agtagtggtt ttaattcttt 360
taaatttaaa ttattatcta gctggtgagg ctttct 396

<210> 17923
<211> 455
<212> DNA
<213> Glycine max

<400> 17923

ggcataatga attaattgtac ataccgcata aagggttag gaaagtctca tagcattgtg 60

gagtgaccaa gctgaggccc tgtggtcgac acacacggca atgatcacgc attgaaagct 120
 tgccatgaaa cacattaagc cagtgtctgt gtaaggagct ggaaatgtct tgcttatgtc 180
 tttctgaaaa acgtaatgat ataataattc tcttaaagag gaaaattaaa ctagttaaga 240
 tagattgatg cttaattact tgaattatga accatgtctgc ccaaacaagg gtgctaagaa 300
 ttacgaccaa agggcctagg aacatgtttc ctttgccaga agagctagtt cttccattt 360
 tctcagcata tctccagtga atacttgatt ggcctaaacc aatggttttt ccatggtaaa 420
 atgacaaaag caaggctcca ctcacacaca atatt 455

<210> 17924
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 17924

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 aatatatcga gacgctagaa atggaatgtt gaacctatga gcctattcaa acgacaataa 120
 ctttttactc ggatgtctga ttgagtccca taatatatcg agacgctcga aattgaatgt 180
 tgaacctctg agccaattca aacgacaata actttttact cggatgtccg attgagtgc 240
 ttaatatgtc gggacgctcg aaattgaatg ttgaacctct gagcaaattc acacgacaat 300
 aactttttac tcggatgtct gattgagttc cgacatatat cgagacgctc gaaattgaat 360
 gttg 364

<210> 17925
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 17925

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 ttatagtcgt atgaattggc tgaaagctta aacattcaac tttgagcgtc tcgatatatt 120
 acgggactca atcagacatc cgagtaaaaa gttattggcg tgtgaagcgg cttagagcct 180
 tagcatacaa ttatgagcgt ctcgatctag tacgggactg aatcagacat ccgagtaaaa 240
 agttattgcc gtttgaatta gctcacaggt gcaacattca atttcgagcg tctcgatata 300

ttacgggact caatcagaca tccgagtaaa aagttattga ctgttgaatt ggctcagagg 360
 tgcaacattc aatttggagc gtctcaatgt attacgggac tcaatcagac a 411

<210> 17926
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 17926

ttcttatgct gcaaataattt acaatagacc tactcaacct cagcagcaaa atcaaccaca 60
 gcagagcaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccctaa 120
 cctcagatgg tccagccctc agcaacaaca acagcagcct gtccttctc tccaaaatgc 180
 tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240
 acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300
 tatgcagaac atgcagtttc agtaagagac cagagcctct attcagagct taaccaatca 360
 gatgggacaa ttagctactc aattgaatca acaacagtc cagaattctg a 411

<210> 17927
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17927

ttctaatacca atcagatggg acaattggct acccaattga atcaacaaca atcccagaat 60
 tctgacaagc tacctttctca agctgtccaa aatccccaaa atgtcagtgc catttcattg 120
 aggtcgggaa agcaatgtaa aggacctcaa cccgtagcac ctctctcctc tgcaaatgaa 180
 cctgccaaac ttcactctat tccagaaaaa ggtgatgaca aaaatttacc taacaatttc 240
 tgtgcaggtg aatcttcttc cacaggtgat tctgatttgc agaagcagca cattcccccg 300
 ctccattcc ctccaagagc agtttccaac aaaaaaatgg aagaggcaga gaaagagatc 360
 ttggaaacgt ttagaanagt agaggtaaac ata 393

<210> 17928
 <211> 451
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17928

tgaggcgaga gttaatgaaa tctctnctta tggaactcct tcctaagaat cctagagtca 60
tgagatctct tcactttctc attgtaaetc ttggagttct cataggcttc taagcagatc 120
ttctcaagtt atagcaattg aagcttcttt tccatacctg cttcatcaaa tgccatgtta 180
caacccttca ctgccaata agcaagggtg gcagtctcta ccagaagggtg gcatgcctta 240
ccaaaaacca ctctattggg agacatccac aaaagtgttt ggtaagcagt cttgtgggcc 300
cgtagagcct actcaagtaa cttgtctcaa ttctttctat tgagttgcac taccttcaac 360
aacacttgct tgatctctct attaaaaacc tccgcttgcc cattagtttg gggatgataa 420
gctataacaa ctctattcac aaccccatat t 451

<210> 17929

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17929

tgtttgttat caattacaca catattgtaa tcgattacca gaggagtttt tcagaaaaca 60
ttctcaatag tcacatcttt ttatctgatt ttttaagtggc catcaaaggc ttatatatat 120
gtgactagag acacgaattt gataagagtt ttgaagaaca aaaaggctctt atcctcttaa 180
caagcaaaat tgttttatcc tcttacaat tccttggcca aaacacttgt gattcaataa 240
ggaattatth aagtgtcaa attgttcaat ctatctcttt caagagagat ttcttcttct 300
cttcttcttt attctgaana gggattaaga gactgagggt ctcttggtgt gaaaggattc 360
taaacacaaa gganagaatg tccttggtgtg tttagaactt gtaa 404

<210> 17930

<211> 436

<212> DNA

<213> Glycine max

<400> 17930

tgatttagta taataagaag cacggatata aatatcttga tgctactat tgatatatag 60

cattgaccat acatgaaact agctaaagag aatggaaact attgataata gtacactcca 120
tagatagtca tgctgtgtaa accactacta caagaaagca ctttaaatta tagtattagc 180
tagtaatttc tatgattgtg ttgatcatgg tcgccctcac ataactgtca ggtgccctca 240
cttttaattg tgaatttctt gctgccacat taaagggtgc caatgttctg ccatcacatg 300
tatgatttcc tcagccaatt ttgccaccaaa ttcccttgaca tgggttgqca gcccgttctg 360
gaccctttga tggacactga attgacaaca gcagctccac ccacattggt gatcaaaact 420
aggttgaatt atcagt 436

<210> 17931
<211> 407
<212> DNA
<213> Glycine max

<400> 17931

tcttcttttg tgtgggatac ccaatgtgag catagtttcc agacccttaa ggaaagattg 60
acgaccgctc cagtgcctagt tttgcctaac ccgagagaac cttttgaggt gtattgtgat 120
gcatcaaaga tgggttttagg tggagtgttg atgcaaaatg gccaaagtgtt ggcctatgct 180
tctagacaac ttatgactca tgagaggaat tatcccaccc atgatctata gttggctgtt 240
gtagtttttg cccttaagat ttggagacat tatctgtttg gctctaagtt cgacgtgtct 300
agtgatcata agagccttaa atacttgttt agtcagaaag agctaaacat gagacaaatg 360
agatggtttag agtatcttaa ggattatgat tctgagctta gctacca 407

<210> 17932
<211> 378
<212> DNA
<213> Glycine max

<400> 17932

agtttctata ctttatacaa gcatgaagct ttcataccac ttgtagacaa gtggcctcac 60
atatcttaag aaggggggtt gaattaagat attgcaaact atttcccaaa ttaaaattct 120
atttcacttt ctatgcaaga tacaaattcc cttataaatg aactcttaaa taatgattca 180
aatagaacaa tctaactata aatataaaac aataatatat aaaagagttt aacggaagag 240
aaaatgcaaa ctcggtttta tactggttctg gccacacct tgtgcctacg ttcagtcccc 300

aagcaacttg cttgagagtt ccactatctt gtaaaatcct tttacaagtt ctgaacacac 360
aaggacaatc cttccttt 378

<210> 17933
<211> 358
<212> DNA
<213> Glycine max

<400> 17933

tctatTTTTgc tgagtGctga gcataaattt atagccttta ttttgatttc ttttttacct 60
cttgtactca actgttgaca gatcaaagag gacaagtatt ttattcacia ccacttagca 120
tttgtgggta agtatcatat tgatccagag ttagatttgt caaggattgt aggatttgag 180
gttacaccat tcagggttga ttataattct tttccaccta gtttctaata tagtcttgta 240
cttatctatt aatcttatgg ctaataataa ctgtacattg'aaatgattct tatgaattca 300
gcgtaaagca tgaatatgaa agttaatgga atgagaattc ccgcttaact acctgtga 358

<210> 17934
<211> 361
<212> DNA
<213> Glycine max

<400> 17934

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cagaattctt cggcttttga catccaaagt atactttgac gtatggaggt ggccaccgag 120
tgaactatcc acgagacaac catattgtta catcgacgcc acgctccatg cattctatct 180
gtttttgacag gttcaggcgc gctgtcattt atgaactcta ctttgttctt ggctctcaat 240
gcaatgatca tggacctgct ccatgagtgg tagttactcg aatgtaagac tgtggaaaca 300
cggactgtgg ccggtttctc gctcgtatgg atgcagagat aactctccat gttgttgatg 360
g 361

<210> 17935
<211> 358
<212> DNA
<213> Glycine max

<400> 17935

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 atgtcacttt attggtggta acttagttac gtggatatgc aataaactag actcaactac 120
 attgtccact gttgaagttg gatatatgac aacaacaagt tgatgtactc aacttctatg 180
 gataaagaat cagctcgaag actacaacat ctatgatagt caaattccca tctattgtga 240
 taataaagct gctataagtc tttctaaaaa tccaacattg ccttctagat ctaaacatat 300
 acaaattaag catcatttca tacaaccctt aaccaaagac atcacgttct caatggga 358

<210> 17936
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17936

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 actatagcat catttatggc gctaaactgc tgggagttag aagccatctt ctcaattaaa 120
 ttcttggtt cagcaagagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tattactgag tccttcgtaa aaatattgga gaagaagctg ctctgaaatc 240
 tgatgggtgag ggcaactggc acatagtttt ttaaactgct cccagtactc ctacaggctc 300
 tctccactga gttgtctaata acccgagata tctttctga tggctatggt cctagaagca 360
 gggaaaattt tttctaaga 379

<210> 17937
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 17937

tgacaagaaa gcagaacctg gaatttttgt aggttatagc tcaacttcaa aggcctacag 60
 aatctaccta ccatagagca acaaagtaat catcagcagg gatgtcaaata ttctggagtc 120
 agatagttgg gactggaaaa atgataagag gtccgagttt caggaggaga atgaagatgt 180
 tgatgaagaa ccataagag gaaccagatc actttcagac atctgcaaaa ggtgtaattg 240
 tgctgtgatg gagcctgagg gatatgaaga agctacagct gatcagaaat ggataaatgc 300
 aatgaaagag gagcttataa tgattgaaaa aaataaaaaca tgggagctgg tggacagacc 360

taaccacaag aaagcgattg gtgtcaagtg gggttataga accaagctca atccggatgg 420
 ttctgt 426

<210> 17938
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 17938

agtctccgtt gttcaatttt gagcgtctcg atatattatg cgctgaatc tgactttcga 60
 gttaaaagtt atgaccattt caatttcacg agggcttctg ttgttcaatt ttgagagtct 120
 ctatatatta tgcgcctgaa tctgacatcc gagttaaaag ttatgaccat tcgaatttct 180
 cgagagcttc cgttgttgaa tttcgagcgt ctcgatatat tatgcgctg aatcggacat 240
 ccgagttaaa agttatgacc atttgaattt cttataagct tccgttggtc aatttcgagc 300
 atctcgatat attatgcgcc tgaatctgac tttcgagtta aaagttatga ccatttgaat 360
 ttctcgagag ctt 373

<210> 17939
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 17939

tataagaaat tcaaatggtc ataactttta actcggatgt tcgattctgg cgcataatat 60
 atcgagacgc tcgaaattga acaacggaag cattagagaa attcaaatgg tcataacttt 120
 taactcggag gtctgattca ggcgcataat ctatcgagac gctcaaaatt taacaacgga 180
 agctcttgag caattcaaat ggtcataact tttaactcgg atgtccattt caggcacaca 240
 atatatcgag acggttgaaa ttgaacaacg gaagctctcg agaaattcaa atggtcataa 300
 cttttaacta ggatgtccga ttcaggcgca taatatatcg agacgctcga aattgaacaa 360
 cggaagggtta tgagaaattc aaatggatcat aacttttaac tcggatg 407

<210> 17940
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17940

agcttgattt gaattaccat ttcaaagag caccaattac gcttgacccc agaagagcta 60
caagtcaagc tcaaaacaca gatagcaaac ctcttcaact ctagagttcc atcaccaaac 120
atctcccacc attctccagg ttgcataact tttctagtgt cctttgcttc ttccatagac 180
aaaaaccctc tagcaccatc asactcaaca agttgcaaat taattttttt tcttttctac 240
aacatccttg accaatcttc tcatacacat gtgcaaccct tctttcacct gaggggtcac 300
atgtctaaaa ctaggtttat aatgcaaag aggattacta taatacgcag ttgtatgcaa 360
aggcttgtga agctaagat c 381

<210> 17941

<211> 416

<212> DNA

<213> Glycine max

<400> 17941

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gatcttcggg ttgatattct tcattcaact gacctttgac gagattggag tcaactccaac 120
actttaggaa cttagctcat atttgcaatg ccacctaaaa gggctttgga cttggccttag 180
ttgtttgtcg tctcgaactt aaacctctat gattgctcta gaattacttc atttgggctt 240
tctaggatga ctccagcccc actccctttt gtattggatg agccatctac acagagcttc 300
caccacttga attacaattt tgtattgctt gatagcttga ttacaaattt tactatgcac 360
tgagaattca ttgacccctt tgattcatat tttagcccaa acttggacaa tttgat 416

<210> 17942

<211> 375

<212> DNA

<213> Glycine max

<400> 17942

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tcttttcaga tgggtgaccag atcctatagc ctttcaactc atcaccataa cccatgaaca 120
gaccctttct tgatctaggt accagttttc cttcattgac atgataataa gcattgcagc 180
caaatactct taggtttgag tagtttgctg ttttgcaatt ccagatttca ataggagttt 240

taagtcctat agcagtaaag ggcgttctat tgatcagaaa acaagttgta ttgatagctt 300
 ctccccaaaa acttctgttg agaccaacat tataacaatag acatcttggt cttaccagga 360
 gtgttctggt cattc 375

<210> 17943
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17943

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 tcttgcggtg gagagggtcg ttcttttctt ggtcatgcac ggttttatag gagctttacc 120
 aaggatttta gcaaagtggc ccttccacta tccaatctgt tgcaaaagga ggtggagttt 180
 gatattgatg accggtgcaa agaggctttt gattgcctca agcgtgcggt gactaccacc 240
 cctatcattc aggcacctga ttggacagcc ccatttgagc taatgtgcga tgcattcaat 300
 tacgcattgg gggctatcct tgctctanag attgataagc tacctcagga gatctactac 360
 gcttccagaa ctttgg 376

<210> 17944
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 17944

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 acgtgcatga tgagctacct caaacttcta aattatgatc aattcacacg tgcgttatat 120
 cattctgatt ataagcacia cctacaattc cctccaaaat tttgtcacia gaaagcactt 180
 gtaagtttat aaatcttgcc tgcccacgag gtttagattg cttctttgcc caagtatgat 240
 taggctgata tgcccgcatt gctctgtctc tatctctggt gccttccatg gattgctggt 300
 ttatgtttgc ggaccccagt aacacatatt catcatccac tatcattcct tttgaatgaa 360
 cataaatcat gaatctccg 379

<210> 17945
 <211> 371

<212> DNA
<213> Glycine max

<400> 17945

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gagttggaat catagggtaa acattgctgt tggtttggct tctgtgttga gttatttgca 120
ccaagagtgt gagcaaaggg tgattcacag ggacattaag actggtaaca tattgctaga 180
tgaggagcatg aaccaaggt tgggtgattt tggtttggca aagcttatgg atcatgacaa 240
gagtcctgtt tcaacactaa ctgcaggagc aatggggtag ttagctcctg agtatcttca 300
gtgtggaatg gcaaatgaga agactgatgt gttcagctat ggtgtggtgg ttcttgaggt 360
ggcttgtgga a 371

<210> 17946
<211> 417
<212> DNA
<213> Glycine max .

<400> 17946

tgcgaaatgt acttgggtgt tgcccagttt catcatatct tccgtaatac ttatcacctc 60
tatcatatct aataattttc acatttatgt ctaattgtca ttttacttca ttgtagtaaa 120
tttctaagga atccatttcc taagaaatct cgggcaataa atagacataa ccgtaacgtg 180
aataatcatc aataatgggtg ataaagtatc attccttttt gaaagaacta acaccaaag 240
gtccacaaat atcagtatgc acaatttcaa gaagttgagt gcttcttgta gctcttttct 300
ttgtatgttt tgcttgtttt tcccttaata caaccacac aaatatttag atccgtaaaa 360
tctagataag gaagaatttc attctttatt aatctttcca tcttttctct aaaaatg 417

<210> 17947
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17947

tcaacctagg ggagacggac cattccaagt gttggattat agatcaacga caatgcctac 60
aagattgact tgcctaata gaataatgta agtgccactt ccaatgtgtc tgatttatct 120

cttattgatg cagatggagg agccttggat ttgaggacaa atccttttca agaaggaggg 180
 agtgatgagg acacaactaa gggcaaggac catgaagcac ttgaaggccc atgaccagag 240
 gcataacttaa aaaggcccaa cacagtgatg aggacacaac taagggaag gaccatgaag 300
 cagttgaagg gcccatgacc agaggcagac ttaaacaggc ccaadacatc atagagataa 360
 ggctggtcat tngtatagct gccattgatg atgaatgaag gcccatggtt ccataatttc 420
 tatt 424

<210> 17948
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17948

agcttttagt ggtatttgac taattatggt ttattgtact tgacttatta gggtttagtg 60
 ttacatgacc aattaggggt tagggttatt tgaaaagata gggttgcttg actaattggg 120
 tttaggggta tttgacaaat aagggttttag gggttactga cgaatttgga tttaggggta 180
 tttgactaat gaggatttat atgtagtga gttaattagg gtttagtggt acttgcccaa 240
 ttaggggtta ggggtatttg acaaattagg gttacttgac taataagggt ttatgggtat 300
 ttgaaaatta aggtttagggt ttacttgaca atttgggggt taggtgtatg tgactaatta 360
 agatttatag gtacttga 378

<210> 17949
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17949

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 tcaaaagtta ttgtcttttg aatttgctca gagcttttgt tttcaattac gagcgtctcg 120
 atatattacg ggactcaatc ggacatccga gttaaaagtt attgtcgttt gaatttgctc 180
 agagcttctg ttttcaattt cgagcgtctc gacatattat gggactcaat cagacatccg 240
 tgtaaaaagt tctcgtcgtt tgatttttct aatagcttct gttctgaatt tcgagcgtct 300
 cgatatatta cgggactcaa ttggacatcc gagtaaaaag ttattgtcgn ttgatttttc 360

tcagagc

367

<210> 17950
<211> 375
<212> DNA
<213> Glycine max

<400> 17950

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ggttgtatga ttgggtctata gtctccttcc atcattttct tgtgcatgta gttggcaggg 120
ctgattcctt taagatctaa tatgtgccac ccaattgctt ccatgtgtcc cttgaggacc 180
tttaccaacc tattctcttc ctctgctgtt agctcactgt gatcaccaca ggcttggctc 240
cgctctcctc caagaacaca tacttcaggt ggttgggtag gatcttcaac tccaccttgg 300
tcttctcgga tggactccca ctttttaatt cttcaaaget ggtccccctt gcaggaatgt 360
tatcttcatg atcta 375

<210> 17951
<211> 376
<212> DNA
<213> Glycine max

<400> 17951

cgcatgcttt tttcaaccta taggtgatgg accattccaa gtggttgaga agatcaacga 60
caatgcctac aacattgact tgcctattga gactaatgta aacgccactt tcaatgagtg 120
taatctatct gtttccgatg cagacggagg agccttggat ttgaggacaa atccttttca 180
agaatgaggg agtgatgagg acacaactaa cgacaaggac catgaagcac atgaagggcc 240
catgaccata cgcaaactta aacaggccga acacgtcata aagacaaggc tgggcatttg 300
tatcgctgcc attgatgatg attgaaggcc caagtggaga cctatgaatg cccacatgca 360
gaagcgctac taagac 376

<210> 17952
<211> 415
<212> DNA
<213> Glycine max

<400> 17952

tgaagatgta tagcccacca tcttttcata ctgtgttatg tgtctactat gattggcatc 60
atgtgatctt cgtcattgag gtgccacttg aactgccaaag tctctccacc tttgggcgta 120
ttctttttaa agattcgtgc ccccatTTTT tgcacatggt caataattgc atcctatccg 180
aagccattat actaacactg cctaacgaag gcaaccatta ggtccttcca agcatgggct 240
cgggaagggt ccaagttagt gtacctggta acagctaccc ccagtaagac tttcttggaa 300
ggaatgtatc agcaatttct catcttttgc gtatgcccc atcttccgac aatacatctt 360
tagatgggtc tcggggcaag tagtcccctt gtacttgtca aagtctagca ccttg 415

<210> 17953
<211> 351
<212> DNA
<213> Glycine max

<400> 17953

tatttttgaa tggaagctct ggtctcttgc tgaaactgca tgttctgcat agtcatttgc 60
ctcacaagtt cttcgagga aggttgtgga ggggcctcaa ctgttagctg tttctggggt 120
tgttgctggt gttggattgg tggaggaatg tatggctctgc ttgggccagc aacattttgg 180
aaagaacgag caggctgctg tagctgttgt tgctgagggc tggaccatct gaggttatgg 240
tgattactcc atccaagggt gtatctgttg ctggagaggt cataattgct ctgctgcgga 300
tgattttgct gctgaggttg acgaggtcta ttgtaaagt ttgcagcata a 351

<210> 17954
<211> 369
<212> DNA
<213> Glycine max

<400> 17954

agttttgaga aagtaagctt caaatgatct ttgaatagaa atagattcct cagcctttgc 60
taatgcttct tcacgatggc cagtgtcata cagtatccat cttcataga caagcctttc 120
atgatcagaa gtagaataat ttctagccag ccgcaaacta cgcattgcag actttggaca 180
attcaacctt caagattcag gaaaatcaac acccataata gtcaagctct ggcattaaaa 240
tgaaaccagg actaagacac acccaaccag tttttogaag tacttatcag tttccattca 300
ttctgaaagc agagaagata caataactga aaatcacctc caggactaac acttatgaaa 360

ctatgcata

369

<210> 17955
<211> 413
<212> DNA
<213> Glycine max

<400> 17955

gcttgagcca ttaatcgaca ataactttta ctttgtgtct gattgagtc cgtcatatat 60
cgagacgctc gaaattgaat attgaagctc tgagcaaatt caggcgacat attcttttta 120
ctcggatgtc tgattgagtc ctgtaatata acgagacgct cgaaattgaa tgttgaactt 180
ctgagcaatt tcaaacgaca ataacttttt tctcggatgt ttgattgaga ctcgtaatat 240
atcgagacgc tcgaagtga atgtttatgc tttgagccaa ttcaaaccac aataactcta 300
tgctcggatg tctgattgac tcccgcgatt taacgcgacg ctcaaaattg aatgttcaag 360
ctctgagtta attcaaacga caataacggt ctactcggat gtctgattga gtc 413

<210> 17956
<211> 412
<212> DNA
<213> Glycine max

<400> 17956

actagctgga cttcctgtgt tgtgaacctt cttttcatct gtcccaaacc caatcacctg 60
gttcaagcac gactctcttt ctgcttttgt tggcttgcc tgcatagctc gcatttttct 120
tttcaatttg aaccttcact tgctcatgca acttcttcac atactcagct ttagcctgag 180
catccttatg cttaaacata gcaatgttac gcatatgcaa catatcaaga ggagtcaaag 240
gattaaatcc atacactatc tcaaatgggtg aacaattagc tgtgctatgg acagcccgat 300
tataagcaaa ctcaacatga tgcaaacagg cttcccaaga tttatagatt tttctttata 360
acagtcttaa gcagtgtgcc ttaagtccta ttgactacct ctacttgacc at 412

<210> 17957
<211> 379
<212> DNA
<213> Glycine max

<400> 17957

agcttgtact tgcctcttat cccttctatt tgttggcaat tttcacact cctatgtctc 60
 aacaatagaa tttcatatct accatcatca tccaccctct tttcttagaa aaaacaacaa 120
 ccttattgat tgaaaacaca tttattgaga ctcttattag gcatgtaatc atcaaccaac 180
 aaaagctcgt tcccttttct acaatactat tggatttga ccaagtttt ttgttgtaac 240
 ctctccatga tcgatatctc caccatgaat tgttgtaaca ctgcttcta atcgtggttc 300
 gcacatttca cagtaatttg agtggtattc agtaatgtgc ttctacactc tcacaaaccc 360
 tccagaacct gacaacatc 379

<210> 17958
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 17958
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 cacctcccc tctaaaattt aattggatta ggcttctacc aattcaatta aatttatttc 120
 ccaacacaca catcaaatat tcaattagtg catgtgaaat tacaaaacta ccctaatac 180
 aaaaactagt ctaggtgccc taaaatacaa gggctgaaaa atcctatatt tctagggtac 240
 cctacctagc ttatggagcc ctaaatacaa ggaccagata taatgacatc ctaatcta 300
 atgtacaaag ataattggac ccaaccttgg cccatgggct cataaatcta ccctgaggtt 360
 catgagaacc ctacgacctt cttcaacagc tctagcccaa tctcttagt gcctc 415

<210> 17959
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 17959
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 ctattttcag attgggaatg cctctaacag cacttttgtc aaggattttc ttcatgcctc 120
 ttaagtgcag atgtccaaac ctttgatgcc atattctgac ttcatcttct ttggaggata 180
 gacatttggg ggagtagctg gtttcttggg gtgtccatag gtaacaattg tcctttgatc 240
 tgetgccctt cattagaact tcaactcttct catttgtcac caagcattct gactttgtga 300

agtttacatt gaatccttca tcacacagct gactgatgct gatcaagttt gcagtcagtc 360
 ccttcaccag cagtactttg ttcagactat gaagtcctac atgaactagc tttccc 416

<210> 17960
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 17960

ttgtttgttg caattcttct agacttagag tgataacatg cagtcctctt gatcccttat 60
 ctctcactgt ctcgatatgc cgagactccg aaaccacaac aagttttatc ttttccatgt 120
 actcgaaaca aaactcagta gcttggttgc caatgtactt ttcaacaata aatgcttgag 180
 gacgggtgtag attcctttga taccctttta agatcttcat gtatcgctca accgggtaca 240
 tccaccgcaa ataaatggga ccacaacatt taatttcctt caccaaata acaattaagt 300
 gaaccgtgat gtcgaaaaat gaaggaggaa aatacatctc caactgacac aagataatag 360
 tagtctca 368

<210> 17961
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 17961

tgtatgacta ccatggatc aaaattgaac tctatcttac cagaaacact ctcatcagga 60
 atgtgatgaa gctggaatgc aaagttcacc actaatgctt catctggact gcagttcagc 120
 attgatgtgg tgacaatgga agtccttgat gccactgctc gaagtttgag tcaagttcag 180
 catttataat ttcattgatg tcttaaaagg taacctgtgg atgtgcagct ggagttgctg 240
 cagcatttag agagctccag tttgtggtgt attgtttgct ttggaagagg ttacatctta 300
 attggtatgg atttttatct cttgatcaaa gattctgttt gcttagaagc atgtgcagta 360
 aagatagtgg tgtctgtact taaattttgt tgcttgtgct cttg 404

<210> 17962
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 17962

tgctaaccce tggaacctcc taatatctcc cacactttgt ggggtgggcc attcttggat 60
ggccttgaat ttctcagggt ccacttggac cccatttcta ccaactacta aacctaagaa 120
aactatatta tctacacaaa aggtacactt ctctatattt gcatataggg tgttcgtcct 180
aaagactgaa agaacttgtc tgaaatgtcc taagtgatca tctaggctcc tactatacac 240
taaaatatca tcaaaataaa caactacaaa tgtacctatg aaatccttta agacatgatg 300
cataagcctc atatacgtgc ttggtgcatt agtgaaccca aaacgcatca ctagccattc 360
ataccaacta aacttgggat tgaaagcact ttttcactca tcac 404

<210> 17963

<211> 413

<212> DNA

<213> Glycine max

<400> 17963

tgaaggcaaa ccggatgcat tggttaactt ggtaacctag ctggccttga atcagaaatt 60
tgtacctgtc gcaagggttt gtggtttgtg ctctctgtct gaccaccata cagacctttg 120
cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgtctg caaatattta 180
caatagacct cctcaacctc aacagcaaaa tcaaccacag cagagcaatt atgacctctc 240
cagcaacaga tacaaccctg gatggaggaa tcacctaac ctcatatggt ccagccctca 300
gcaacaacaa cagcagcctg ctcttccat ccaaaatgct gctggcccaa gcagaccata 360
cattctcca ccaatccaac aacagcaaca accccagaaa cagccaacag ttg 413

<210> 17964

<211> 379

<212> DNA

<213> Glycine max

<400> 17964

agcttattta ggcaccgtat ttaactaatt tgtgaccgat tgttgtggtc actaaatgat 60
gttcttttcc ttgcagtga tgccaacaat atccttgagt ttttttggc atggagaaat 120
gcaatcttga aacctccatg gaaattctga gtttcactat ttaattcttt cttttagcat 180
taggagcgag gctttgagta tgagccttga aataggcaac aaattgggtcc ttaagtaggc 240

ataacttctt tgacacctgc atggtttgga aagtcttggc tccatctgaa gagcttagga 300
aatttctcac atgtgaacaa ttgcagccca tttatatctt gaattatagg tatgaataca 360
acaacaatat ccacataac 379

<210> 17265
<211> 418
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17965

cgcttncatc tggaaaggtc tgccaattag gtgtcttttc aactatatga tctaataacag 60
aaagaaacca ctctatctct cgctgccaca ttgctttctt ctctgaacgc aggggctcta 120
atctccaaag ttggccaaag agggtagctg caaattcagc aaagaaatga acaacaacaa 180
tcaaagtcaa gaatagcaaa tgaataaaaat tcaccacacc aattaataaa aaataaaaaac 240
acagtaactg cttcaagtgt gcattttgca taccacatag attgggttatg gcatttgaga 300
tagccaaggc tgtagcgacc ccatttccac aacctgacat atcttctcca agtaacaatt 360
ttgcaaacct ctcttcatc atctcaatct ctacaagtga gaatgaaaat caaatctc 418

<210> 17966
<211> 371
<212> DNA
<213> Glycine max
<400> 17966

agcttttatgc cttaataaga gccctccaaa cttgggaaca ttaccttggt tccaaggaat 60
ttgtcattca tagtgatcat caatcactta agtacattag agggcaaagc aagttaaaca 120
agaggcatgc aaaatgggta gactacctag agcaatttcc atatgttata aaatacaaaa 180
agggaaaaac aaatgtggta gctgatgcc tctctaggag acagacattg ttttgctccc 240
taggagctca aatttttagga tttgataata ttagggactt gtatgcttta gatgaacatt 300
tctctcccat ttatgagagt tgtgggaaaa aggcccaaga tggattctat ttggctgagg 360
ggatatttggt c 371

<210> 17967

<211> 424
 <212> DNA
 <213> Glycine max

<400> 17967

ctcagcttct ataaaagggtt cgttcctaata ttctctacaa ttgcatcacc tctcaatgag 60
 ctggtgagga agaattgtggc atttacctgg ggtgaaaaac aagagcaagr ctttgccttg 120
 ctccaagaaa agcttactaa ggcacctggt ctagctcttc ctgatttttc taaaactttt 180
 gataatatta gggacttgta tgcttttagat gaacatttct ctcccattta cgaaagttgt 240
 gggaaaaagg cccaaaatgg attctatttg gctaaggggt atttgttcaa agagggaaaag 300
 ctttgcatac cccaaggatc cattaggaaa ttacttggtt aagatagcca tgaggggtggg 360
 ctcatgggcc actttgggat agacaagacg ctctgtttac tcaaagaaaa gttttatttg 420
 cccc 424

<210> 17968
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 17968

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 atcatggaca atttcttcat ttggttttga cgaaaacccc atggatcaat gcatatacca 120
 caaagtcagt gggagtaaaa tatgttgtct tgttttatat gtatatgata ttttacttgc 180
 agccaatgat tgaagtttgc tagatgaggt gaaacaattt ctctctaaga attttgacat 240
 gaaggatatg ggtgatgtat cttatgtcat cgacattaag attcatagag atagaccttg 300
 aggtatttta ggtctatcac aagaaaccta tattaacata atttcaaaga gaatccagat 360
 gagagattgt tcaccaagc 379

<210> 17969
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17969

gtgtttgtct gcttgaaggt aaactagatg ccttgggttaa cctggtaacc caactggcca 60

tgaataaaaa atctgcacct gtcgctagac tctgtggttt atgctcctct accgaccacc 120
acacagacct ttgctcttct gtgcaataat ctgaagcaat tgaacaacct gaagcttatg 180
ctgcaaacat ctacaataga catcctcaac ctcagcagca aaatcagcca caacagaaca 240
attatgacct ctccagcaac aggtacaatc ccgggtggag gaatcatccc aaccttagat 300
gggtccatcc ttcccaaccag cagcaacaac aacaacaacc ttattttcag aatgctgctg 360
gctcaagaag accatacggt c 381

<210> 17970
<211> 381
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17970

agctttggga ttattcacat gagttaacaa gaagcaatga atgatcaatt gtgaaaatga 60
attgcatccc atacctagat cttctccata attccaccga atttatatgt gtatagatgc 120
atgcaagcaa ggagtggctt tgatggttgt tttctgaaaa ggtactacgg cggtcattta 180
cttgccagcag tgggacaata tgaaaacaat gcattttttg tgattgcata tgcaatagta 240
aatgttgaag ataaagacaa ttggaagtgg ttcctcacat tgttacatga agacattgga 300
gactacgaac aatatggctg gaatttcatg tcagacatcc aaaagggtgca attcaattgt 360
cttgctttga gtaattntga c 381

<210> 17971
<211> 419
<212> DNA
<213> Glycine max
<400> 17971

tctataaatt agaatttttag tgtaatgaat aagattatat attgatacat aaaaaaatc 60
tattttctatt actctaataa gttgacttta aagatgttta cctttaattg ttaattctct 120
tcaggaatth agacgtatca aggggaacat aaactcaatg aggggaacatg cagagctttt 180
gagttctgtc agggatgata ttactgactt taaggatgaat catgagtttg atttgaatta 240
aattacaaag ctattttctc atagctgtac tagacttacc ttctttctggc agacatcagg 300
cagtatgtca ccaaggatgc agttactacg tgagagagct gccatccatg gaagtatatc 360

tcacacaagt atttataata tgaaatatga tgaatttgta ttcttctact tgaaattct 419

<210> 17972
<211> 417
<212> DNA
<213> Glycine max

<400> 17972

tcacacaatg gttcatcact tttctgatgg aagctcaata tatttgtctt agcctgggtt 60

cttttttctt cttggaagaa acagtctaaa aacttgtttc caatgtcact ccaagtgata 120

aggctctgag atggatgagt attgagtcac ttcaaggcat tatctcctat gacggaaaaa 180

tggaaaacca tcatatagag attctcctct tcagtttggg tcaccctgt tgtaccacat 240

tgatcataaa atgtggccag atggttgat ggggtcttcat tagctaagct aggaaatgca 300

tgttgggcaa ggaaagtgat taggcctaac tttagccttt gttgtgtggt tgttgctcct 360

tgggtctagca atgttgaagt atactcgtga accattatca gtgtcatggt ccgcaag 417

<210> 17973
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 17973

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atttaaataa aattatgtat aagaaaatat acttgtgatg tacaattaaa aaaatcaaat 120

ttgagcaata tttatttttc ttgatcaaaa gtcaaaacta ttcatttctt gacgattcca 180

ttgaggttgt aatgagtaga aaggcaatag gcagaagatg ccattcaatc aatatagtaa 240

ggatatctat tggtttacat ggtgcaagta gacatatata atatggattg aaatttttag 300

agcattgaaa tcaaatcaat ttacttataa tatataaaaa catatttcaa ttttaatgca 360

tcaaacctta tagat 375

<210> 17974
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17974

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attcctaatt ttcaacttac ctatatggat gtgacatcat ggcatataag tcccaacttt 120
ccatcgtgga ttcagtcaca aaacaaactt caatatgttg gactgtctaa cacggggatt 180
ttagattcta ttcccacttg gttctgggaa ccacactctc aggttttgta tttaaacctc 240
tctcataatc atatccatgg tgagcatgtg actacattac aaaatccaat atctatccaa 300
actgttgatc taagcacaaa tcacttatgt ggtagattac cctatcttca natgatgtga 360
tgact 365

<210> 17975
<211> 425
<212> DNA
<213> Glycine max
<400> 17975

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aagagataac aatttagaga gtgatcgaag actttcaaat ggatttccaa tgaatttatt 120
catagagaga tcgagatatc ttaatgatga aagttttcca aatgatctag gaagagcacc 180
accaattgag ttgttgga aaagtaacgt gtcaatattt ttaaatgccc caatatgatc 240
tgtcagattg cctgaaagtc gtgaactctg aactgcaagt gttgtgagtc catgggaaat 300
acaacgagca agaatttcta aaagttcatt aacctgttgg ttgagtttga gatatgataa 360
atctatcacc cttaagttgc agagagtacc caaagaagtt ggaatcgttc cttcaagatg 420
attac 425

<210> 17976
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17976

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tagcttacia tgattaaata ttacagttta tatagttagt tacaagatta actaacttgt 120

agttagttac aagagtaact aacttgtaac taactaactt taactcactc taactaacta 180
agctaattct aactctagtt acatgataac ttatgctaata agcccccttc aagctaggaa 240
tgaatgttag acgtgcctag cttggaatac aaaaattgaa aaacaccagg cagcagagct 300
ttagtgtaaa tatctgcaag ctgatttgca gaggaatag gaagcaattt cacaagccta 360
gtcatcacct tctcttgaaac tatatggcag tcaatttcaa tctgttntgt tctctcct 418

<210> 17977
<211> 382
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17977

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ttcagctaag gccatgtatt ctgcttcagg tgttgaaaga gcaacaattg attattgatt 120
tgctttccaa ctaattgttg taccacacaa agtaaacaca tatectctta aggacttcat 180
tgtgtctaca tttcctgcan aatctgcac tacatagctt gtgattgctg cctcgtgtgc 240
tgtcttcttg taccttaaac cagctttcaa agatccatgt agatacctta gtgtccactt 300
cacagcttcc tagtgtgcgc tgccaggatc tcccatgaat ctgcttataa tacttatagc 360
atgagctaag tcaggtctac tg 382

<210> 17978
<211> 364
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 17978

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gctttaaggt taagcagctg tagcaaaagt tgaatgaatt ggaagattcc atgtctcacc 120
aaccttctga ccagcaagtc cttcagttga agaattattca ggctgagcta tgggaaaagg 180
ctaagttgca ggaatccttt gttaggcaga aatctaaatg gattaaggag ggagatagca 240
atagctccta tttccataaa attatcaatt tcagtaggag aagaaacacc ttgagggggc 300
tgatgatgga tgggtacttgn gtagaatacc ctgatttgat taacgatgaa gttctacagc 360

at

364

<210> 17979
<211> 398
<212> DNA
<213> Glycine max

<400> 17979

tcaagtttaa acattcaact tcgagcgtct cgatatatta cgagtctcaa tcaaacatcc 60
gagaaaaaag ttattgtctt ttgaatttgc tcagacgttc aacattcaat ttcgatcgtc 120
tcgttatatt acaggactca atcagacatt cgagtaaaaa gttattgtcg tttgaattgg 180
cttagagctt caacattcaa tttcgagcgt ctgatatat gatgggactc aatcagacat 240
ccgtgtaaaa agttattggc cgttgaattg gctcagagct tcaacattca atttcgagcg 300
tctcgatata tgacaggact caatcagaca tccgagtaaa acgttattgt cgtttgaatt 360
tcctcagagc ttcaacattc aattttgagc gtctcgta 398

<210> 17980
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17980

ntgagccaat tgaacaaca ataacatttt attgtttgtc tgattgaggc ccgnagtata 60
tcgaaacgct cgaaattgaa tgctgaagct ctgagccgat tcaaacgaca atatcttttt 120
acacggatgt ctgattgagg cctgtaatat atcgagacgc tcgaaattga atgttgaacc 180
tttgagcgaa ttcaaacgac aataactttt tactcggatg tctgattgag tcatgtcata 240
tatcgagacg ctcgaaattg aatgttgaag ctctgagcca attcaaacga caataacgtt 300
ttactcagat gtctcattga gtctgaaat ttaatgagac gctcgaaatt gaatgttgaa 360
cctctgatct aattcatatc acaatatact ttacacgga tg 402

<210> 17981
<211> 423
<212> DNA
<213> Glycine max

<400> 17981

tcacaggcaa gttccatca gttcttcaact taaactcttg catgagtcac gacttgtata 60
ggagacatgt ttttttcttt tcatttcttt cattattttt cttctttcgt cttctcttat 120
attctctctt tcactctgac ttatttcttc cacttttttc tctttttctt ttctctcttg 180
tttttttttc acaatttaag ggcctttaa tcaatttaac tcttatataa gggglactta 240
ggagtagaac cctcaccatt aacactagat gaagaatgaa gactcatgtt ggttcctaag 300
tcgtgggtcc atcttggttg ggggttgaaa aaaaaaggta aaagaaacta tcattgaaaa 360
tagccaaaat aaactacta agagggtgtga aagataaggt aaaaactaat tggtaaaaaa 420
cac 423

<210> 17982
<211> 395
<212> DNA
<213> Glycine max

<400> 17982
tctagcttga atgtaggaga agattatatg aggagaatga gagatagaac acgaagtttt 60
gtgcctcaaa agagggtctaa acattgaagt gtaattctca aataataaaa gttgaaaaaa 120
tgcacacaca tggcctctat ttatagccta agtgtcacia acaattggag ggaaatatga 180
atttctattc aaatttcaact tgaatttgaa attgaatttg tggagccaaa ttctggagcc 240
aaaatttcag taattattat tagtgaattc tagttatggg tcagcccact aatccaagat 300
caagtccaag attctgcact aagtgtgctt aggtgtcatg aggcattgaa agcatgaagg 360
acatgcacia agtgtgacta tatgatgtgg caatg 395

<210> 17983
<211> 376
<212> DNA
<213> Glycine max

<400> 17983
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ccaaaattct ttaatgaaat tgaagttgaa tccatcaggt ccaggacatt tgtccccacc 120
acaactccac actgcttctt tgatcttatg atccgagaaa ggagcaatca attcctcctt 180
ctgccttttg ttaattgaag agaattgtac tccatcaagg gtgggtctga aaagctgttg 240

ttcagtgaat ctgttgagaa aaaaaattca cagcttcatt cttaacttca ttgaggttct 300
 aaatccttac accatgaatg agaatccttt gaagaccata taatgtctct tggaattata 360
 agttatggaa taagct 376

<210> 17984
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17984

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 ttgacactgt tacctaattgc attcacattc agcggaagcc ttgcagggtc tttaccagcc 120
 actgtctgca caggggttgc taaggaatcg aagtttgagc tcgacacaâa ctctggcaat 180
 atgtggaact gcactaattc gattttctgg ccttcgttta aggagttgag gaagcctgct 240
 ttgaggttgg aaaaggcaga atcatctggt gcaaggatgg ttatgccgcc actcttggtc 300
 gttatgagct gtgagttgat gttgttcattg atttctgtgg ttntgaggag gccgattang 360
 actgagaaca ttnnttgctt tttcaggatt ct 392

<210> 17985
 <211> 311
 <212> DNA
 <213> Glycine max
 <400> 17985

agcttgataa caagtgaâââ tgtctgtata atttgtgccâ tactgctgat gaaaaccctt 60
 agccaccaac ttggctttgt acttgtaaac aatgccatca gagttttctt tcacctaâââ 120
 caccacttg caaccaatgg aagttttgtt aggaggtata ggaactagac tccatgtttt 180
 gttttââââc aaggcatcat attcagtttg catagcagcc aaccaagtag ggtcagccââ 240
 ggcttgcttg gtggatttag gttctâââtg ggtcagaata agggtaacgt gaatcttgtg 300
 ttgaacaata c 311

<210> 17986
 <211> 393
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17986

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gcattttttaa acttagttcc atggttgctc cgaatagaag agatgtaaaa acctttttca 120
ttttggacta ttttatagaa tatttcaaag accttaaaag actcattctt atgagcaagg 180
aagtataccc aggtatatct tgaatagtca tcaattatga caaagccata cttttttcct 240
cctagactca atgttctagt tagtccaaat agatccatgt gcaatagatg tataggctctg 300
gaagtggaaa caacatcttt agatttataaa gaggttntga tttggttgcc ttgctgacat 360
gcttcacaga gaatatgagt tttccaacag atc 393

<210> 17987

<211> 320

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17987

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gaactaagct gacctccgtg agatgagaag ctcaagctta caaaagaagt gcctacaacg 120
aagactactc agaatgccct gaaatacaag gctaaaatcc tatactacta gaatggccaa 180
aacacaaggc caaaagaag gaaaaaccta ttctgatatt taaaaaaaag agtggatcca 240
accttgacct atgggctcaa aaatctacct taaagttcat gagaacccta nggcattctt 300
tagtagctct agcccaatcc 320

<210> 17988

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17988

ctcgacccgg gatcctctta gtcacctgca gcattttatc ttctagaata atggcctctt 60
tctaacttct tattcccaga aggaaattca atacataggc ctctattttt taatggagaa 120
ggttaccact actggaaaac ccgaatgcaa attgttattg aggcaataga cttaaacatt 180

tgggaagcca tataagttag accttatgta cccaccatgg tggctggaaa tacaacaata 240
 gagaaaccta tacaagagtg gtatgaacat gacagaagat tagtgcagta caatttatag 300
 gctaaaaaca tcattacttc tgccctanga atggatggat atcttacggt ttcaaattgt 360
 agagtgcctaa aatatgtggg acactctaca agttacacat gacggaacaa ctgatgtc 418

<210> 17989
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 17989

tcaagaaaaa gatggcctca gcaaattcct tattttctctg aaggttaatt ctatcaatag 60
 acctccaatc tttaatggag agggttacca ctactggaaa acccgaatgc aaatttttat 120
 cgaggcaata gatctaaata tctgggaagc catagaaata gggccttata taccacaacac 180
 agtagaaaga gtttcaatag atggtagttc atcatgtgaa agcataacca tagaaaaacc 240
 tagagataga tggctctgaag agggtagaaa acgagtacaa tacaacttaa aagccaaaaa 300
 cataataaca tctgccctag gaatggatga atatttcaag gtttcaaatt gtaagagtgc 360
 taatgaaatg tgggacactc ttcgataaca catgaaggaa ctacagatgt taaaagatc 419

<210> 17990
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 17990

agcttgtgcc tcttcacgtc tggaatatga atagcatata gatccaaaga cccttaggtg 60
 ctttgetgat ggcttcttcc cgttccaagc ttcaatagga gtcttgtctt ttacagactt 120
 agttggacat ctgttgagta tgtaacagc aatgtagact acttcagccc aaaatgtgtt 180
 aggtagtccc ttctccttga gcatcgatct agccatttcc ataactgtgc gaatttttct 240
 ctcagacact ccattttgtt gatgagaata tgcgactgta agttttcgct caatgccttc 300
 atcctcacia aaactttcaa acttgcgaga ggtgtactc 339

<210> 17991
 <211> 394

<212> DNA
<213> Glycine max

<400> 17991

ctataacact cagcttaaca tctaccactt ccaggtgctg gaactacttt tcatttacct 60
gtcttggccc atgcaagttg aaagccttgg tggattaaag catgcctatg ttgttgagga 120
tgatttctcc atatttacct gggccaactt tttcagagag acatcagaca ccttagaagt 180
attcacagag ttgagtctat cacttcaaag agataaagac tgagtgatca atagaattac 240
gagtgaccat ggctgagagt ttgaaaacag caagtttact agattctgca catctgaggg 300
catcactcat gagttttctg cagtcattac accactacaa aacggcataa ttgtaaggat 360
atacacgact ttgcaagatg ctgctatggg catg 394

<210> 17992
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17992

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tagcatcatt tttggcgcta cattgctggg agttggaagc catcatctca attaaattcc 120
tggcttcaac aggggtcatg tctccaaagg ctccaccact ggcaacatca atcatacttc 180
tccccatgtt actgagtcct tcataaaaaat attggagaag aagctgctca gaaatctggg 240
ggtgagggca actgacgcgt agtnttttaa atctctccca atattcatat aggctctctc 300
cactgagttg cctaattgctt ggaatatcct ctttgatggg cgtgggtcctg gaagcagggg 360
aaatgttttc taaagaatac tctcttgagg tcatacctggc tcgtgatgga ccttggagca 420
ag 422

<210> 17993
<211> 421
<212> DNA
<213> Glycine max

<400> 17993

tataggaagt gaaagaatta gcatgggcag aaatgtttcc gctttgattg gtaaattctgt 60

tccccaatc cctgaataat gtaaagatcc aagtacatta agoatacctt gtattatagg 120
 aaacagtaag tttgacaatg ccatgctaga tttatgagct tctgttagtg ttatgcctca 180
 gtctatTTTT aattctctat ctcttgggcc tttgcagtca actgatgtgg taattcattt 240
 agctaataga agtggtgcct atcctgctgg tttcatagag gatgtcttag ttagagttgg 300
 tgaactgatt ttccttgttg atttttatat attgaatatg gaggagggat tctctcaagg 360
 atcagttccc atcattctag gcagaccttt tatgaaaact gctagaacta agatagatgt 420
 a 421

<210> 17994
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 17994

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 aagttttaac tcggatgtcc gattcaggag cttcacatat cgagatgcac gaaattgaac 120
 aatggaagct ctagagaaat tctaattggc ataaattttc acacggaggt cctattcagg 180
 cgcttaatat atccagacgc tcgaaattga acaatggaag ctctcgagat attcaaattg 240
 tcataacttt tcaactcgat gtccgattca ggtgtatcac atatccagac gcttgggaatt 300
 gattagcggg agctctagag aaattcaaatt ggtcataact gttcacacgg aggtcctatt 360
 caagcgctta atatatcgag acgctcgaaa ttgaacaacg gaagctctc 409

<210> 17995
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 17995

gcttaatggc ttaatgagga tggagaggag cacgtaatgt agcctttggg gttggatatt 60
 accattggag ggtacaatga ttaagtccta tgtgatgttg atgctatgga ggccagccac 120
 ttactcttgg ggagaccatg gccttttgat aagaggggcta gtcattgatgg tttcaccaga 180
 aagatctctt tcgcgtctca tggcttaaag atcgtgctca aactattgag tccccaagaa 240
 gtgtgcgagg atcatagaaa attgagagag aaaattcttc tcgagaagac cgataatgga 300

aaagagagtc aaacacttga gagttcatat agtgaggaca caaagaggga aacacatgag 360

agaatctga tgagtgaac acttgaagtg agggagaatt tctagttaca aaaggagagc 420

<210> 17996

<211> 404

<212> DNA

<213> Glycine max

<400> 17996

ctcacaaaat atatatagtg fatgctgtat gttagttaa ataccttaca tgtgcgtgta 60

tgtggacaaa ataaacactt cacaaaatat atatatgtat gtttaggtag aaagatacct 120

taaatatgca tgtatgtaaa caaaaaata cttcacaaaa catatatatg tatgtttagg 180

tggcaagata ccttggatat gcatgtatat agcaaaaaata cttcacaaaa atatgcacat 240

gtatatgtag cataatacct catgaaaaaa taagaataaa acaacaggcg cgataaagat 300

ataaacagat gataatgatt ataaaaaaga aggagaaaaa agaaaaata agttgtcaag 360

ctgaaaaacc aacatgcgtt tgaaaagaga tgaacttcaa cttt 404

<210> 17997

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17997

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gtgatgctag tggagttggc attggggctg ttttgatata aaacaaaagg cctatagctt 120

atttctcgga gaaattggga ggagccagat tgaactattg cacctatgac aaagagttct 180

atgccattgt gagagctctt gatcattgga atcattatct gcgttctaata cactttatat 240

tgcattcaga tcatgagtca ttgaagtata tcaatgggca gcagaagttg agtccaaggc 300

atgctaaatg ggttgaattt cttcaatctt ttaatttctc tttcaaatac aaggatg 357

<210> 17998

<211> 423

<212> DNA

<213> Glycine max

<400> 17998

ctgagcaaat tcaaacgaca ataacctttt tactctttat gtcggattga gtcccgatat 60
 atatccagac gctcgaaatt gaatgttgaa gctctgagca aattcaaacy acaataacct 120
 ttttactcag atgtcggata gagtcccgta atatattgag acgctcgaaa tggaataccg 180
 aagctctgag caaattcaaa cgacaataac tttttactcg gatgttcgat tgagtcccg 240
 aatatatcga aacgctcgaa attgaatgtt gaagctctga gcaaattcaa acgacaataa 300
 atttttactc ggatgtccga ttgagtctcg taatatatcg agaagctcga aatggaaaac 360
 caaagctctg agcaaattca aacgacaata actgtttact cggatgtctg attgagcccc 420
 ata 423

<210> 17999
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 17999
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 aacaagccaa caaagggaga atgatggttg tcttcgaacc cggagattgg gtttgggtgc 120
 acatgagaaa agaaagggtt ccggaacaaa ggaaatcaaa gcttcaacca aggggagatg 180
 gaccatttca agtgcttgaa agaatcaatg acaatgctta caaagttgag ctgcccggtg 240
 agtataatgt tagttccacc ttcaatgtct ctgatttata tctttttgat gcagatggag 300
 aatccgattt gaggacaaat ccttctcaag agggagagaa tgatgaggac atgaccaaga 360
 gcaagggcaa ggatccactt gaaggacttg gaggacctat tgatgacgac atgac 415

<210> 18000
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 18000
 agtctgtagc caactggatg cattgggttaa cttggtaacc cagctggcct tgaatcaaaa 60
 atctgtacct gtcacaaggg tttgtggttt gtgctcctct gctgaccacc atacagacct 120
 ttgcccttcc atgtagcaac ctggagcaat tgagcagcct gaagcttatg ctgcagatat 180
 ttacaatata cctcctcaac ctcagcagca aaatcaacca cagcagatca attatgacct 240

ttccagcaat agataccacc ctgcatggag gaatcacccct aacctcacat g

291

<210> 18001

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18001

agttttctat tattcattgt gacaatacaa gtactgtatc cttactcat aatccagttc 60

ttcatgctcg cactaaacac atggagtttag acctattttt tgttcgtgaa aacattttta 120

acaagttgct cttagtgtt tatgtgcttg ccaccgggtca atatgttgaa attattacca 180

aatctttatc tcttaccaac ttggaagctt tcaggtttta gctcacactg tgtgatccct 240

caaattcttg tcagtctcac ccaactgatgg ctccccactg cagttacttt ttgtgcattt 300

atgtcttaag ggaaatttca atgggggggt ntatcacccg anagcgcacc aagttgtcaa 360

gtatttaaaa ttaaaacgg 379

<210> 18002

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18002

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ggagcaagca ttaatcttat gccaatctca atgcttacta aagttggaga tgtggagatt 120

aagccaacaa ggatgacact ttaactgaca gatcaatcaa agttccatat ggagtaatgg 180

aagatgtgct agtgaaggtg gataaattca tattcttggt tgactntgta atcatggata 240

tggaagaaca tgttgaagtt ctttttattc ttggaagact attcatgatg acaactctag 300

cattgattga tgtaacaat ggcaagctca aaatac 336

<210> 18003

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18003

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attaagaact agctcttttc atcctctatt gcctttagtt gaatacacct ttgtttgggt 120
ctctatttgg ttcttaaccc tctcatgcaa cttctttaca aactctgacc tagattctca 180
ttctttatgt ataaaagaag tgtccagtgg gaggggaatg aggtctaacg gtgttagggg 240
attgaatcca tagacaacct caaaagggga ttgcttgggtg gtcttatgaa cccccctgtt 300
gtaggcaaat tctacatgag gaagatatte atccaagac ttatggttgc ctttcagaag 360
agcccttana aggggtggata aagatctatt cactacctct gtttgcccat cagtttgtgg 420
at 422

<210> 18004

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18004

agctttactt aagggtttgtt cctaatttct ctacacttgc ctcacctctc aatgagctgg 60
tgaagaagaa tgtgtcattc acttgggggtg aaagacaaga gcaactcana gaaaagctca 120
ctgaggcccc tgttctagct cttcttgact tttctaaaac ttgagctaga atctgatgct 180
tctcgagtgg gtgtaggagc tgtattgttg caagggtgagc accctattgc ttattttagt 240
gaaaaaattc atggtgccat cctcaactat cccacctatg ataaagagct ntatgcctta 300
ataagaagcc ctcaaacttt gggaacatac cttgtttcca aggaatttgc attcatagt 360
gatatgaatc acttaagtac attagaaggg taa 393

<210> 18005

<211> 386

<212> DNA

<213> Glycine max

<400> 18005

agcttccatt gttcaatttc gagcgtctcg atatcttatg cgctgaatc tgacctccgt 60
gtgaaaagtt atgaccattt gaatttctcg agagcttccg ttgttcaatt ttgagtgtct 120
tgatatatta tacgcctgaa tcggacctcc gagtgaacaa ttatgaccat ttaaatttct 180

cgagagcttg cgctgttcaa tttcgagcgt ctctatatgt gatgtgccta aatctgacct 240
 ccgtgagaga agttatgacc attttaattt ctcgagagct tccgttggtc actatcgagc 300
 gtttcaatat attatgcgcc tgaatctgac ctccgtgtga aaagttatga ccatatgatt 360
 tctcgagagc ttcggtggtc aatttg 386

<210> 18006

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18006

nttactcgg atgtccgatt caggcgcata agatatctag atgttcgaaa ttgaacaatg 60
 gaatcgtttg agcaattcaa atggtcaaag cttttcactc ggatgtccga ttcaggcgca 120
 taatatatcg agacgttcga aattgaacaa tggaagctct tgagcaattc aatgatcat 180
 aacttttcac taggatgtcc gattcaggcg cataagatat cgagatgttc gaaattgaac 240
 aacggaatct tttgagcaat tcaaattggtc aaagcttttc actcggatgt ccgattcagg 300
 cgcataatat atcgagagcg tcgaaattga acaatggaag ctcttgagca attcaaatga 360
 tcataacttt taactcggat gtccgattca ggcgcataat atatcgagac attcgaaatt 420
 gaa 423

<210> 18007

<211> 413

<212> DNA

<213> Glycine max

<400> 18007

taactaatca gatgggacaa ttggctactc ttttatatca acaacagtcc cagaattcta 60
 acagattacc ttctcaatct gtctagaatc tcaaaaatgt gagtgccatt acattgaggt 120
 cgggaaagca gtgtcaagga cctcaaccag tagcatcttc ctcatccgca aatgaacctg 180
 cccaacctca ctctactcca gaaaaagatg atgacaaaaa tttaaagagt aagttacct 240
 acaatttcta tgcaggtgaa tttccacta gtaattctga tttacagaag cagcatatcc 300
 ctcttcatt cctccaaga gaaatttcca acaaaaaaaaaa tggaagaggc agagaaggag 360

atattggaaa catttagaaa agtagaggta aacatacctc tgctggatgc aat 413

<210> 18008

<211> 144

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18008

agcaagttta tgttctgctt tcttcgganc gccaggaggc tattgaggat gtttgcata 60

atgttcatca aagataatag gctaaaattg ccttttttgg ttgcgtctct gtcccgctat 120

ggtatcacga tgatgttagc ctca 144

<210> 18009

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18009

cattcaacct tccaagaaaa agtaatggcc gttggaattt cctctgacct tcaacattca 60

attccgagcg tctggatata ttacgggact caatcagaca tccgagtaaa aagttattgt 120

cctttgaatt ggatcagagg ttcaacattc aatttcgagc gtctcgatat atttcnggac 180

tcaatcagac atccgagtaa aaagttattg tcgtttcaat tggctcagag gttcaacatt 240

caatnttgag cgtcccgata tattacgtca ctgaatcgga catccgagta anaagtattg 300

gcgtttgaat tgctcaaagc ttaacatttc aattcgagc 339

<210> 18010

<211> 308

<212> DNA

<213> Glycine max

<400> 18010

aaaagatagt tggaggctctg ctgcatactt attcaagtac cttaaattatg caagggaatc 60

gttctttgtt taaaacttaa attattaaaa ataattataa atgcctcttt acatgaacct 120

tctttataat ctgttttagat gggctaactt atagcatagc gggctctgtt tttacctggt 180

gtattttgaa atattataaa ttacacaggaa gttacaaga tggttcagag tgttcctgtg 240

taccoccttac ccagttttcc caatgggtcca tctacatatt atactatatg tcaaaccaga 300
aattgaat 308

<210> 18011
<211> 316
<212> DNA
<213> Glycine max

<223> unsure at all n-locations
<400> 18011

agctntatgt gaagatttgt gaaagtgtaa cctgttcaat gacatttgaa atattcatag 60
tgtctctagt agagaaaaca gtcaaaagtc acttctttat tatttgctta ctttcccaac 120
caaatgttca ggcccagttc tccatcccc acactcttat atgagaacct gactttacgt 180
ttcacatat aatgggtatgt agttcttgca tgaatcanat aatccatcta attcaccagt 240
ctcataatct agtttatgac atatcaccag agactaagga ctgggtgtctg taaactgtga 300
nagggccaag ttgatg 316

<210> 18012
<211> 195
<212> DNA
<213> Glycine max

<400> 18012

catggatctt acttgctggc tctgaggggg tggatccact gagctagaac attgggtccc 60
tggcttcacc cccctttctg ggagtgaatg agtctgtctc gctggcattc caggagccac 120
tatggtatga aaaacaaaaa ctctgttagc tagttcggtg tctgaccaa tggtgcccc 180
agttttgctt gaaac 195

<210> 18013
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18013

agcttgcattg caaattatct taatataaaa acatgcanac attgaaccat agaggtaaaa 60
gtttcctatg aaggaaacta anaaacactg attaaagaaa ttgtagataa cacaacaaaa 120

tggaaaaaca cctcatgcac atggattgga aggaacattc attaaaatga acataacttgc 180
 ccaagaaatc tacagattca atgcaattcc tatcanaata tcaatgtcat ttttcatang 240
 aatagaanaa gcaatcctaa nattcatata gaaccaaaaa agagaccana tagcccaagc 300
 agtcctaagc aaaaagaaca nagctggagt catcacatta cctgactnta aattatgcta 360
 caagactata gtaatc 376

<210> 18014
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18014

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 cactatcagc ataatatact ataaataaat atatgctgat taatatattt tcaatggtag 120
 aatttaaact aaatattatt tttaaaacca cactctctct agctntgtta ctaagagcaa 180
 agcaagtcac atacagtaag gtttagtctt attgtaaaag aaaaatttca gacaacataa 240
 atttaacaga atttacgtgg aaaaaaaga aagattcatg aatcacacat tacacagaat 300
 ctgaaaagat tcagagagct ctgctttgcc acatgggcag tgagtattta tagacagaac 360
 atgggagtaa gtatagaaat 380

<210> 18015
 <211> 255
 <212> DNA
 <213> Glycine max
 <400> 18015

agtttctttg cccattgcct caaggacatt gttttcactt gtccctagca cgtgcctatc 60
 catatttatg gatgagtgga ttatcactag acaaagacaa attatcttta aatctgaagc 120
 tataaaatgt ttatgtttgt tgatttatat tgcccagctg ttctcccagc aggggtggta 180
 gcagggtgac ataaaaataa aacagcatcc accctttcta tgccaaatgt aagaaaagaa 240
 ttaaaatgat gttcc 255

<210> 18016
 <211> 283

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18016
 gaaaaaaaa tagaaatgaa agacagtcgc ggaaaatctc aaggttttag gtagaattat 60
 ctgatatgtg tggatattat atttttccc ttataaaac tatanaaaat tatactaaaa 120
 aatattccat taaaatcigt atgaatttta atgaaagata gttataaaa atcttaattg 180
 aatatcatca aattttattg atattaaaa ataattctaa atatcttgat tgaatactat 240
 aagatttttt tatcttattt aaaagtntg attgaatatt aca 283

<210> 18017
 <211> 358
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18017
 cctcaagaag aaaggaattc acccagtgca tacaagtatc tgcaggcaca nataaatcct 60
 tggctgagct caagagactt taaaaggctc taatctgaga ttccttatga aaaaaattcc 120
 agcatagcca gttagagaaa gagagcctat atggccaata attattcttg ctgcacttta 180
 tgtaaataat taggcatagt ataataaagc aagcttattt tgcaaataaa ttggctctgt 240
 ctttagtaaa aataaactgg agagagacaa attatgggtc ataacagcta cagcacacct 300
 gttattagat tccaacctca tccattgttc ttgagcttct gctgatgacc ccatattt 358

<210> 18018
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18018
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 gcaagagaga nagtgtgggc ggcagagggtg ccacacactn ttaagtaacc atatctcatg 120
 agaactcact atcaganaga caacaccaag ccatggatca ttcaccccat gatcaaaaca 180
 cctcccacta ggccccacct tcaatgctgg ggattacaat tcaacacgag atttgggtgg 240

tgacaaatat ccaaactgta tcagcagact aatacaatag tacattatga tcaaataagg 300
 ttatcttcaa gatgtaaatn tgggttaacc atttgaaact aatcgtgtaa ttcacaaaaa 360
 ttacagcata naaaagaaaa atcatatgag tatctcacia gatgcagaaa caggatttga 420
 caaaattcaa taccatttca tgataaataa ct 452

<210> 18019
 <211> 307
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18019

agtttnnattt anactccaca ccccgacccc tcttctgctc tgcttctgt gggaggaacc 60
 ttacaaatnc caaatcatgt cagccaacgt atttaaagta ctgaaaacat attttangaa 120
 taaaatctga agaaaaatgc gtttcctatg cctgngtcac atcagtttgg gaaaaatct 180
 gatgcaagaa gataaaatgc cagctccagt agcagaaacc aactaccaca tcaaagtttg 240
 tcactctgct tttggttgaa agcatggcan gcaagcggat ctatagtga gcccgctgat 300
 catttta 307

<210> 18020
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18020

agctttttgt ctttttttat ccagangcta atatgaatga ttcccaaact tgtgcacatt 60
 gaaatcacca acaggtcttt caaaaaatac tgatgtgggt tgaagacatt gtgattta 120
 tgttattggg tatgacttga gcattagtat tttaaaaatc ttgtagatga tttatttta 180
 gccataaatg tatcccatag tttgtttatc ccataatttc tgattcttcc cacatcaaga 240
 atcaggtgac atcactgaag attgtacaag tattaagttg ataattagac aatataaaaa 300
 agcattatct caatatatct aacattgtaa tgaaatggag atttttgaaa tataaanatt 360
 actaaagctt actcatgaag aaataaataa cctgaatagc cctatatcta at 412

<210> 18021

<211> 235
<212> DNA
<213> Glycine max

<400> 18021

ctgcaattga cctaattggt gtttttcatt cattagctct tctgaaaca aggatttctg 60
cttctcccat gattgaaact tcaattgggt ctcttttcc cctctgaga cctctgaca 120
gcttgtggct gactcagcgg ctgttaactt agcaacctcc atctccttcc tcagtgcagc 180
attttccacc tcaagtttcc ggacatcagc attggttctt tctacctgtg cactc 235

<210> 18022
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18022

agctnttcta anaaaaaata attaataatt aaatctctga agtggatata ttcttcctan 60
atcaatggca cattgtctnt gttaactntg ttgttggtat ttctttttaa tagtacgttt 120
gctgtttgaa cactcggctt aacttcagtt cattcaaaaa cagttcattt tgaaaggaac 180
aataaggaac aaacgaaata cacacatgat atggattggc tgtatcccca ccaaacttca 240
acttgaattc tatctaccag aattcccaca tattgtggga gggaaccag gggaggtaat 300
tgaatcatgg nggctgatct ttcccatgct attcttctga tagcgaataa gtctcacaag 360
atctgatggg tttatc 376

<210> 18023
<211> 422
<212> DNA
<213> Glycine max

<400> 18023

agcttcttag tttatatgat gcagatggag ccatcttctc aattaatatt ttggcttcag 60
caggagtcac gtctccaagg gctccaccac tagcagcatc tatcatactt ctctccatat 120
tactgagtcc ttcataaaaa tattggagaa gaagttgttc tgaaatctga tgggtggggc 180
aactggcaca tagtttctta aatctctccc gagactcata caggctctct ccactgagtt 240
gtctaatacc tgagatatcc ttctgatgg ctgtggctct ggaaacaagg aataatatct 300

ctaagaatac tctcttaaag tcatcccacc tcgtgatgga ccttgagca agtaatacac 360
cagtcctttg ccactcctct aatgaatgac gaaaaccttc agaaaattgg acctcttgac 420
at 422

<210> 18024
<211> 298
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18024

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ctaccaagac tactcagaat gccccgaaat acaaggctaa aaccctatac tactggaatg 120
accaaatac aaggcccaga cgaaggaaat acctattcta atatttaca agataagcgg 180
gtcatactt atcccatggg ctcgaaatct accctaacgc tcatgagaac cctagggcct 240
taccttggat ctctaacca atctacgtgg tgtctttctc ccaatgcctt tgcgggggt 298

<210> 18025
<211> 409
<212> DNA
<213> Glycine max
<400> 18025

agcaagggtt ttttgtattg gcaagaaact atggaatggc agagttgaat taataaagat 60
caacaaagta tgaacttttag ttgaagcttc aaaggatata aaaccaattg gttgtatatg 120
ggtttacaag acaataattg gagcttattg gaagggtgaa acctacaaaa ctgccttat 180
tgccaaggga tattgtcaaa aggaaggat agattatgac ataacttttg tcccatggcg 240
atactcaaat caatttggat gcttcttgct atattagcat actatgatca tgaaatatga 300
tatggatgtg gaaaatggct ttccttaatg gtgagctata ataacatgtg tgtatgacaa 360
aacttgatgg atcacatcct agtcttatca taataaagtc tacaagttt 409

<210> 18026
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18026

agcttttgc ttttaatatct tatnnngnaa ttttaacaaaa attgcttccc tatcaattag 60
catctcatcc actgctgcc a ctgatgaaga tcccattaga tattggggaa tactgggcgg 120
atttctgcc aaggttactt cgaagggtga aactccaatt gtlaagtga ctgatgtgtt 180
gtagaaccat ttgaccaca taaaanattt tccccaagtt gcaggtttat ggtgaacgaa 240
cgcccgcaag tattattcga caactctgtt gatgacctt atttgtecat ctgattgagg 300
gtgataggca gaactcattt gcaatttcgt tccacgcaat cgaaagagct cttgccaaaa 360
cttactcaca aataatgggt ctctatcaga cagagactt cgaggcatac cat 413

<210> 18027
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18027

ttgcttanac tttgttttagc ctaccatcct cagactgatg gccaaactga acggaccatt 60
cagtcgttgg aggacctttt aaaagcatgt gtcttatagt agaagggaag ttgggagagt 120
tttcttccat tgatagagtt cacttataat aacagttttc actctaccat tggcatggct 180
ccctatgaag ctttgtatgg tagaagggtg aagacacccc tatgttggtc aaagcccgga 240
gaaggcctca ccttatgacc agaagtggta caacaaacca ctgagaaagt taagttaatt 300
catgatagga tgagaacggc tcagagtatg caagaaagtt atcatgataa gaggaggaaa 360
gatttggaat tcgaggttgg tgatcatgta ttcttaagag tcactccgtg gac 413

<210> 18028
<211> 409
<212> DNA
<213> Glycine max

<400> 18028

agctagcatg ccttttgaac cctattcaaa tggcacaaac cttcaataag gcaaataaa 60
atccccaaat cagccctata cccggagctc accaaatcct tcaacaaatc aaaagccaat 120
ccaaccttac cctcagccac aaacgcctca accagcgctc catatatcac cctatccacc 180

aaacaaccct tccccttcat ctccctgaac aactcatacc cctcctgaac cctccccct 240
 ttgtccagcc ccacaatcat ggtagcatat gccttcacat ccggcaccac ccgggccctc 300
 ttcattctact cccaaaccct cagacacgca tgcagattac ctgcaggcac cagaattctc 360
 accagcgccg tgtatgcaga cacatccagc ttacacaacc tctccctta 409

<210> 18029
 <211> 286
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18029

tcgtaagca ccgtaaataa acttccaagc atcggttgac aanccttctgt ctgtacgtca 60
 gtttggggat gatatgctga actgaactta ggttgtgtac ctattgcttt aaaaatggct 120
 ttccagaagt tgcttacaaa caaacgggtca cgatctgaaa caatggaaga tggaaatcca 180
 tgcaatctta caatatcctg tagaaaaact gcagctactt cggtagcggg gaagggatgt 240
 cctaattgta tgaagtgggc atattcagtg agtcgatcaa ccacca 286

<210> 18030
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18030

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 taatatatcg agacgctcga actggaatac cgaagctctg agataattca aacgacaatg 120
 acttcttact ctgatgtctg attcgggtccc gtaatattatt gaaacgctcg atattgaaag 180
 ttgaagetct gagcaacttc taactacaat aactctttac tcggatgtgt gattcagtc 240
 agtaatatat cgagacgctc gatattgaat gttgaagcta tgagcagatt caaacgacaa 300
 taacttttta ctcggtgggc tgaatgagac ccgtaaatat caagacgctc g 351

<210> 18031
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18031

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ctaagctcac ctcccttgaga tgagaagcta gaacttaact acacacacnc cctataatag 120
ctaaactcac ccccatgcn caaaaatacc atgaagata acaaaaagaa gtcctacta 180
caaaagacta ctcaaaatgg ccttgaaata catggctaan accctatact actagaatgg 240
cctttatata aggccanah gaaggaaaaa cctattctaa tatttataaa gatgagtgg 300
ctcaaccttg acccatgggc tcagaaatct accttgaggt ttatgagaac cctatggcct 360
tgtttggtag ctctagccca atcctcttgg agtcttct 398

<210> 18032
<211> 428
<212> DNA
<213> Glycine max

<400> 18032
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gatccctgtc agatacaata ctagaaggaa ttccatgcaa ccttactact ttcttgatgt 120
acaactccac tagcttctcc attctatact tcatattcac cggaataaaa tgagcagatt 180
tggtgagtcg atctactatg acccacacag catcatgtcc acgactagtc ttaggtaaac 240
tagatacaaa atccatagat atgctctccc atttccattc cgggatttcc aatggcttca 300
attctcccga tggctgctgg tgcacaacct tagccttttg acatgtcaaa catcttgcta 360
catattcagc tacatctttc ttcatgccat gccacaaaaa acttctcttc aaatcttgg 420
acatctta 428

<210> 18033
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18033

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taccaattat aattatttag ttataagctt ttatgtaaca tttcacaatt tgttctttat 120

aaaggattgt gatttttaaat acaagttact ttaattattc aacgttctac gtaaattata 180
 tatagcctct ccaagcctaa cacaacaata tttgagctca ttttgaattt gaaataataa 240
 cttaagactt attaattgaa tgaaattgga attatatttt caattataca atgatttgat 300
 ttactatttt tctggctatg actattagta aaaataaact tgatattctg atctcttaac 360
 tggacctaac gttttaaagac ttctaatact agtaagcgtt ttcttaaca a 411

<210> 18034
 <211> 319
 <212> DNA
 <213> Glycine max

<400> 18034

gaggagcacc aactaatgat gctgatgagg cagcccctga cccagaagac gagtgattct 60
 tacaatactg cacactattc tcatacatcc tttccaacac atagtgcgcc aaattcccat 120
 ttgcctccaa taaattctca ttgcacagaa actcactcgc acaaaccttc tccactttcc 180
 catagaagtc atgcaagaag acatgagtct tatgggtccc accctttttg ctcttgggga 240
 gaacaccaac ggtgaatatt gctgacattc tgccaggagc atctggccag tccccgcgtg 300
 tgccgtcaac caatatgac 319

<210> 18035
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 18035

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 gactgatcat tagaaccaat gaacttagtg acaatctcct tggacaaaag cttctctcga 120
 ataaaatggc aatcaatctc tatgtgctta atcctttcat gaaagactgg gtttgaggca 180
 atatgaagag cagcctgatt atcacaatac aacttcattt gcaactcttc acaataacct 240
 aattcttgta gaaattgttt aatccacgag ttcacaagta accatagcca tagatcgata 300
 tttagcttct gcactggacc aagcgacaag tgtctgtttc ttgcttttcc aagagataag 360
 aattcctcca atgatgacac ataagcctga tctagacctc ctatccatgg gacagccagg 420
 ccaatcatca t 431

<210> 18036
 <211> 386
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18036

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 tatgtccaga cgctcgcaat agaataccga agctctgagc aaattcaatc gacaataaat 120
 ttttactcgg atgtcggatt gagtcacgta atatatcgag aagctcgaaa ttgaataccg 180
 aagctctgag caaattcaaa cgacaataac tttttactcg gatgtgcat tgagtcctgt 240
 aatatgtaga gacactcgga attgaatacc gaagctatga gcaaattcaa tcgacaataa 300
 ctttctactc ggatgtcgga ttgagtcacg taatatgtcg agacgctcta tatagaatac 360
 cgaagctctg agcacattca aacgac 386

<210> 18037
 <211> 406
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18037

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 tatgtctgaa gtttagtaca tatgcttgta ctacaatttc aagatcctaa gatgttgagn 120
 ttttaattaa accatgtgtg gcaggaaatg aatgttctga gagattggca tactatggta 180
 tgagtacaaa cctggtgaac tatcttctgg agcggttcaa ccagggaat gcaaccgctg 240
 caaataatgt cacaacctgg tcaggcacat gctacatcac accattgatn ggagcctttc 300
 tagctgattc atacttgtga agatactgga caatctccag tttctcaatt gtctattagt 360
 attgtagttt agagatnntt ttttcttgt ttgttgagtc cccatg 406

<210> 18038
 <211> 395
 <212> DNA
 <213> Glycine max

 <400> 18038

atcttgagaa gacaacgggg gaggtgctct taagagggtg tgcttccgaa gctatgagat 60
 taaccttaag cttgcaggac caagcttctt atgccatacc cagtgatgct ctttgatcga 120
 gagtaggcac aacacttttt tatcttgaca aatcaccaag tgtaatgtca tacagatttc 180
 cttgtctctt agttgaaaaa agtgaagagt tctcttgtt atggatgata cacatatact 240
 tggtaaggcc gacattgtat ccacaatcac ataattgact tatgcttagc atattatgct 300
 tcaacctctt aagaagcaaa acattatcta taggaggata ggaagyaata catacittac 360
 ctacgccagt tatcatacct ttctgatcca tctga 395

<210> 18039

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18039

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 tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttgtgg atgatttctc 120
 cagatttacc tngttaaact ttatcagaga gaaatcagaa accttgaag tattcaaaga 180
 gttgagtcta agacttcaaa gagagaaaga ctgtgtcatc aagagaatca ggagtgacca 240
 tggcagagaa tttgaaaaca gcaggttcac tgaattctgc acatctgaag gcatcactca 300
 tgagttctct gcagccatta caccacaaca gaatgggata gttgagagga anaacaggac 360
 cttgcaagag gctgctcggg tcatgcttca tgccaaagaa ctccctata atctct 416

<210> 18040

<211> 346

<212> DNA

<213> Glycine max

<400> 18040

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 aaacgacaat aactattgac tcggatgtcc gaatgtgtcc tgtattatat cgagatgctc 120
 gaaattgaaa actgaagctc tgagagaaat catatgacga taacttttta ctcggatgtc 180
 cgattgaatc ccgtaatata tcgagacact cgtaattgaa aatggaagct ctgagcaaat 240
 tcaaacgaca atagcttttg actcggatgt ccgattgagt cccgttatat atcgagacgc 300

tcgtaattga aaacagaagc tctgagcaat atcaaacgac aataac

346

<210> 18041

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18041

agctctanat ggatcttatt tgnnatncaa atgggggggtt ggcttttaac aaaattctta 60

ttgcatatatt ctaagtttat tttatttagt aaatatgtgt ttattctaaa aataaagatg 120

aattgagagt aaaagataga attttgatga atgaaatgat taaaaaattg agacagtgat 180

cacttattga aaatataatt attaaagatt tgaattgatt aagtgcctaga tataaactag 240

tcttaaataa aattataatt ctccatgtaa atgagttgaa caaaattata atctctgtaa 300

atatatttta atgtcaaacc taccaaaatt taaactaacc gctcaataaa tgtaaatttt 360

aaacttaaatt taattttattt aattaaaaaa taagtttaac tacatattta ataaattaaa 420

tt 422

<210> 18042

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18042

agcttgatgna ttctccttct tcaactacatg aagaatcacc gggttgagtc ttctatgtgg 60

gtgtcttact agcttagccc catcttctaa atttattcga tgcatacata tggatgggct 120

aataccagga atgtccgcca gggccaacc tatatccttc ttatgcttct tgagaataga 180

taatagcttc tcttcttgct catcagcaat ggaggcagat ataattactg gaaaactttt 240

gctatcatcc aagtaagcat attttaaatt tgatgacaga ggcttcaatt ctgggtggtg 300

cggctggata gtggtagaaa gggatgggtt ctcagcctgt acctcataaa gaaagtcaga 360

ggatgtgtga ctctctgaaa catgggttagt tctatctgac tctataaaat caatctcaag 420

aggtaaaaca t 431

<210> 18043
 <211> 359
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18043

agcttgtagc ttcttggttc ttcttcatca atggaggggt tggcttctcg aagatcaatg 60
 ctagcygaut ggagaaggaa gaaacytgat tggagacacc actccaagga ctagatgagt 120
 caagaacaaa ctcaccacca taggaagcca tggataagag cttacagtta ggagaagatg 180
 agtgaaggga gaaagagaga acgagcacga aattttatgc ctcacatgag gtctgaactt 240
 tgaagtctaa tttaaataga tcagagttga ataatttcac acacaaggcc tctatttata 300
 gcttcaatgt cacacaagat tggagagaaa tatgaatctc tattcaaatt tcaactgaa 359

<210> 18044
 <211> 423
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18044

agcttgatc ttgttcttat agtgacaatt tctttacatg gagctacatg aacctgctgc 60
 tcgatctagc acgaggagaa ctcatttgca gcatacaca tcaacttagta ttatggtagt 120
 tntagaaagg agtggccgcc actgtggttg cggttgcgca ctaattcgaa tatgttttagc 180
 ggaagttaac ggtggtggaa taagttagtc gaacgttcca attggaagga gcaacattcc 240
 atgcaataat agtctccctg gtggtgtatg aagtgattct gacagaaaga gcttggccac 300
 ccagagttgc aaatgcttga taagaagccc ccagttgtg gtcctatgcta atccatccac 360
 ttctgcttnc tttcacagac atgcttgata tgtctcctcc accttccacg ttcttcacgt 420
 ata 423

<210> 18045
 <211> 410
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18045

atctttcttc atcattccaa acttgtcatc attaggetta ggcagcatct ccgtaacaaa 60
 tttatatattt ataatacatg ttaccaaca gagaaataga aggaaaagag aaaaatatta 120
 gacatacatt atgtaatact gttgaaaaaa tttcaatccc gattagctaa aaataatgtt 180
 aaaattaagt atatacaaag taggggtattc tttttcctat tagtaacttc ttgaaattaa 240
 gttaaataat cgtarcacag tctatataag agaggggaaca aacttttctt taataaataa 300
 atcaaagtga aactcatatt ttaataaata tagttttcag acacaatctc tattagtaat 360
 tagaatttat tgaaaattat aaacatgtgt aatgtttatt actntaatct 410

<210> 18046
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 18046
 ggattatcag atgtttgtaa tcgattacca gtaacggcac ttcagaaaat actttaaaaa 60
 gtcattgacc ttcaaaatat aactgtgtaa tcgattacca gaaacctgtt atcgattacc 120
 ggtgataaaa tttcaaaaat actttttgag agacacatgt cttcaacta ttttgaaaag 180
 gcacgatggg cctatatatg tgtgtgtgtg tgtgtctgac tttaaaagc aagagagaga 240
 tattctatga gaactcaatt ggcaaagtct ctctcaaca ctcttgggca aacacttaca 300
 aatctattga gaattcttct aagatcttta atgtgtatca tctactctaa aagagagaaa 360
 tctttctgtt catcttgaac tc 382

<210> 18047
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18047

agccttgag ttttttagtt ccaatncgnc ttcttcttta gtccagtctt cttctggctt 60
 caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
 gacagctttc caaggtctgc tatccaatga tttgaggaag gccaccattc ttgctttcca 180
 atattcatag ttgcttccat cgagaattgg tgggtctgtc actggtccgc cttctttctc 240
 catgttcac agaaatttat ctcttagatc tcaactctgtg atttcagagt ttggctctga 300

taccaattga tattctgata ccagnggaca gatgtcgtac atgatgtcac gacatcacgc 360
 ttcagaacat gcagattata tgtgtccgta tgaacagatt aaacaagtta ataacacagg 420
 agaattgtta cccagttcg 439

<210> 18048
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18048

agcttgtgtt ctattatata taggacatgc atgatgtcct ttgacactat atccacttaa 60
 attgccatat gctaganagt cattaatagt aaaaaacacc attgagtgtg acctgaatgt 120
 ctcttgcaga tgctcatccc acacatcaac cttgtctttc cataattttc tcaagtcttc 180
 aatcaacgga gtaagataca catcaatatc attccctgac tgccttggac tcgctatcat 240
 catacatagg ataatgtatn ttcacttcat gcacaacgaa ggagggaggt tgtaaatcat 300
 cagcaaaaaca ggccatgaac tgtgggtttgt gcttaagttt ccaaaatgat tcattttgtt 360
 tgaagcaaga g 371

<210> 18049
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18049

acatgcacaa agtgtgacta tatgatgtgg caatgtttgt gtattannag caaatgctca 60
 cctctccctc taaanatgtg aattggatag agcttctacc aacttcacat taaatttatt 120
 tccaaccata cacatcaaatt attcacttag tgcgtgtgaa attacaaaac taccctaatt 180
 acaaaaacta gtcttgggtgc cctaaaatac aaggactgaa aaatcccata tttctagggt 240
 accctaccta cattatggag ccctaaatac aaagaccaa attaatgaaa ccttaatcta 300
 atatgtacaa agataagtgg gctcatactt agcccttggg cccgaaatct atcctaaagc 360
 tcatgagaac cct 373

<210> 18050
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18050

agatactcag cttagcatcct gaagacaact tctatgatat atagacttgt tgtttatgag 60
 tacatggcta atgggttcatt ggataaatgg atattcaaca agaacaaaga ggaatttcag 120
 ttggattggg atacaaggta taacatagca cttggaatag caaaaggact tgcttatcta 180
 catgaagatt gtgactcaaa cattattcat tgtgacatta aaccagaaaa cgtgctccta 240
 gatgataatt tcagggttaa ggtttctaata tttggtttgg ctaagctcat gaaacgtgaa 300
 caaagacatg ttttcacaac acttagaggc actagagggt atcttgccacc tgagtggatc 360
 acaaactgtg ccatatcaga gaanaatgat gtttatagct atggtatggg gttgctagag 420
 atcattgggg ggaggaaaaa ctatgatcct agtgaaactt c 461

<210> 18051
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 18051

agcttctcga tatattatgc acctgaattg gacttccgtg tgacaagtta tgaccatttt 60
 aattcttcga gagcattcgg tgttcaattt cgagcgtctc gatatattat ccatctgaat 120
 cggacttccg tgtgataaga tatgaccata tgaatttctc gagagcttcc gctgttcaat 180
 ttcaagcttc tcgatataatt atgcacctga atcagactct ccgttgaaaa gttatgacca 240
 tttgaatata tcgacagatt ccgatgttca atttcgagcg tctcggtata ttatgcgtca 300
 gaatcggact ttcgggtgac gagttcgacc atatgaattt ct 342

<210> 18052
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18052

tgcttatagt atatataata aaagaactat gactattgaa gaatctattc atgtttcctt 60

tgataagtct aatgctatct ctctgagaaa ggatatttta gatgatgttg cataatcttt 120
 agattaaaatg catattcata gacaagattc taaaggaaaa gggaaaggaa gcaatgaaga 180
 tcctccagaa gaagccaaat caaatgatga acttccaaaa gaatggaaag cticaaaaaga 240
 tcatccccctt gacaacatta ttggtgatat ctcanaaggg ataacaacta gacattctct 300
 caaagatnta tgcaataata tggattntgt gtctatgatt gaacctaaaa atataaatga 360
 agccataata gatgatcatt ggataattgc tatgcaagaa gaact 405

<210> 18053
 <211> 302
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18053

agaatgtgct tagagcttct attctcaata cgagcgtctc gctatattac gggctccat 60
 cggacatccg tggaaaagat tattgacgct tgaatttgca acgagcttac aatttcaatg 120
 tcgagcgtct cgatatatta cgggactcaa tcggacatcc gagtaaaaaa ttattgtcgt 180
 ctgatttgct acgagcttcc gttttcatct ggagcgcctc aatatattac gggactctat 240
 tggacattcg agtaanaagt tattggccgt tgaatatgct cagaagctca ttctcaattt 300
 cg 302

<210> 18054
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18054

caagcttgga gtttcctagt gccaatcgt cttctctttt agtccagtct tcttctggct 60
 tcaattcttc agtgggcttt cttctgtgt ccagcatctt gggatgttcc cagcctttga 120
 tgacagcttt ccagggtctg ctatccagtg atttgaggaa ggccaccatt ctgctttcc 180
 aatattcata gntgcttcca ttcgagaatg gtggtctgtt cactggtccg cttctttct 240
 ccatgttcat cagaatntat ctccctagat ctactctgt gatttcgagt gttggctctg 300
 ataccaattg aaattctgat accaaggagc agatgtcgta ccgatgtca cgacatcacg 360

cttcagaaca tgcagattgt atgtgtccgt ntgaaccagt ataacaagta aataacacaa 420
gagaattggt 430

<210> 18055
<211> 319
<212> DNA
<213> Glycine max
<400> 18055

taagtcaata tcttttatct gtcttattca tgcacatgcc tatattctga tcaatgaatc 60
atcttaggta ctataacata actattctgt atacggctct ttgtattgct aatgctatat 120
atgctacatc atattttgat aaataaatac ttttaggtag tataagatca tagtttgaat 180
cgtaatgtta tatggacatt agattttacgt tatatgataa attacgaata cttttacata 240
ctctaagggt taattttata tggtagatta agaatatctt taattttgat atgatacata 300
agcctacttg aaatttcct 319

<210> 18056
<211> 342
<212> DNA
<213> Glycine max
<400> 18056

agcttcaaca ttgtatttcg agcgtctcga tatattacgg gcctcaatca gacatccgag 60
taaaaagtta ttgttgtttg aatttgctca gagcttcaac attcaattcc gagcgtctcg 120
atatatgacg ggactcaatc agacatccga gtaaaaagtc gttgtcgttt gaattggctc 180
agagcttcaa cattcaattt cgagcgtctc gatatgtgac gagagtcaat cagacatcca 240
agtaaaaagt tattgtcggt tgaatgggct cagagcttca acattcaatt tcgagcatct 300
cgatatgtga cggggctgaa tcagacattc gagtaaaaag tt 342

<210> 18057
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18057

gagccaattc anatgacaat gactntntac tcggatgtct gattgatgcc cgtaatatat 60
 cgagacgctc gaaattgaat gtggaagctc tgagccattt caaacgacaa taacttttta 120
 ctccgatgtc taattgacgc ccgtaatata tcgacacgct cgaaattgaa tgttgaagct 180
 ctgaggaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cctgtcatat 240
 atcgagacgc ttgaaattga atgtggaagc tctgagccaa ttcaaacgac aataactttt 300
 tactogaatg tctgattgag tctgttaata taacgagacg ctcgaaattg aatgtlgaac 360
 ctctgagcaa attcaaacga acaataactt ttactcggat gtttgattga gactcataat 420
 atatcgag 428

<210> 18058
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18058

naagctacat atttgtctgt tggaagaaag ccatggatgc tgagagtaca gctcttgaag 60
 taaataaaac ttggactgct gaggatcttc catgtggaaa ggttccaatt agttgcaaat 120
 gggatatataa aatcaagtat catgccaatg gcacaaatag aaatgtacaa cgccaggctt 180
 gtggccaaag gttacactca gatggagggg gtatactact ttgacacttt ttcccctata 240
 gccaaagatga ctacagttcg tgtgttacta actgtcgctg ctgataagag tcggcatctt 300
 gacaacttga tgtcacaatg ctgtcttgca tggaaactga atatgaagtt atatgctctt 360
 ctcttggtat gatcttctac tcttcagtat cgaattaaca ttccttattg ggtgaccaac 420
 taccgtcatg 430

<210> 18059
 <211> 317
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18059

agcttttaat gatctttgtc atgcagccga tgagagaaat aggcctgtag tcatttaacg 60
 attgaggatg atttgattta nggatcaggg ccatgaacga agcattgctg cctctatgaa 120

agcttccatg gcagtggaaac tcattccacaa atctcttgaa tttacgtctc agaattcttc 180
 aaaaagcctt aataaagttg aaattaatac catcgggacc tcggcatcta tcaccaccac 240
 aactccaaac agcatcttta atctctcgat cagataaagg cgcaatgagt cctctctctc 300
 gattctgatac aatggag 317

<210> 18060
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 18060

agcttttgat taatttatat ggtcataaat agtcactcgg aggtccgatt catgcacata 60
 atttatcgag acgctctaaa ttgaacaacg gaagctctca gaaaatttaa atgctcataa 120
 cttttaactc ggaggtccga ttcacgcgga tgatataatc agacgctcca atttgaacaa 180
 tggaagcttt tgaacaattc aaatggatcat atattgtcac tcggaggccc gaaactagcg 240
 cataatatct cgagacgctc aaagagaaca aacggaagct ct 282

<210> 18061
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18061

tcgtgaccag cgatgtttcg gttatgtgca cgaaggagag atagaagaca gtgaatggng 60
 atgacattng gtgggccttg gcaacactaa gctttgatga ctatgctgaa ccaatgagaa 120
 ggtacttgca tagatataaa gaggttgagg tagaccataa taataaggtc aatcttcaag 180
 atagagagaa taatagtcct gaagagaacg acgatgaagt atttcaattg agtaatagag 240
 gggttaaggt ttgatgacca attattatgc ttagtgtgaa gtagtaatta attaaggctt 300
 gtttanggtt gacattactt ttcttgtata cttttgtgt ctaaattgaa ttgattgagc 360
 ctgcctagaa caagaattct tggtttgctt tctttcttct tcttcttctt ctntatactt 420
 atatact 427

<210> 18062
 <211> 299

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18062

gaagatgatg aatgggaaac acgggggccg aacaataaat ctgctgttac caagactcaa 60
 agctttcttc catcagaatt aagtgggtatt ttggaggac aacttagaag ttggtgaga 120
 gcctaaggta caaaacaact ctataatata ttagtgaagg gattcttttt gttttaaattg 180
 tcaacttcat taagatnttg ggaaaattca attggaccag ctgttgcttc ctgctgatat 240
 tccttcaaag aaaaaatgaa catgtacata aatgatgtat tatataaaac aaacattat 299

<210> 18063
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18063

agcttcttga ttgntatgtg tggaccctca agtgcaatcc tccgttctcc acttatttcg 60
 gaaccccatg aatgtcattg cctagcgcta ttcattgtgc ctccaccttc gagtctggag 120
 ccccaagaat gtcattgctt agcactgttc gctaattctc cattcttcac ttttattcgg 180
 agcccatga atgtcattgc ctagcgctgt tcatgtgtcc tccaccttca agtttgaggc 240
 tatgcttcat tattgcctaa gtgtggaccc tctagtgcaa tcttccattc ttcacttt 298

<210> 18064
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18064

tgatcttgta ggccactgcc cctgatgtca gctccattgg ttcttgttta cctaggatct 60
 tctccatcaa tggattcctt tgctttttgg aagatgaatg acaacgtaat ggagaagcaa 120
 gagagagagg agacgccact tcaaggaaaa gtgagtctag aagaagctca ccaccataag 180
 aggccatgga taagagctta gaggaagaag gagatgaatg aaggagagg aagagaagag 240
 caggaattt tgtgtcttaa aagagctctg aaatctgaag tttaatatcc aaatgatcaa 300

agttgaaaaa aatgcacaca catgacctct atttatagcc taagtgtcac acaaaattgg 360
 agggaaatth gatntcaatt caaattcact tgaatttgaa ttgaantgtg gagccaactt 420
 tggaccaaht ttactaatat 440

<210> 18065
 <211> 333
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18065

agcttttact ttttatntcg agctttncga tatatgacgg gactcaatcg gacatccgag 60
 taacaagtta ttgtagtttg aattagctca cggtctcggt attccatttc gagcgtctcg 120
 atatattact ggactcaatc ggacatcaga gtaaaaagtt attggcgttt gaatttgctc 180
 agagcttcga gattccattt cgagcatctc gatatatgac gggactcaat cagacatccg 240
 agtnaaaagt taatgtagtt caaatttgct cagggcttcg gaattccatt ccagagcgtc 300
 tcgatgtctt acgggactca atcagacatc cga 333

<210> 18066
 <211> 281
 <212> DNA
 <213> Glycine max
 <400> 18066

ttgagcaaht gcacacgaca ataactcttt actatgatgt ttgattgagt cctgcaatat 60
 atcgggacgc tcgaaatgga ataccgaagc tctgaacaaa tttaaagcgac gataaccgtt 120
 ttactcggat gtctgattgg gacccgtaat atatcaagat gctagaaatc gaatagggaa 180
 gcgttgatca aattcaaaca gacaaggact ttttactcgg atgtgcaatt gagactcgca 240
 aatattcgag acgctcgaaa tggaatattg aacctctgag c 281

<210> 18067
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18067

ttcttatgct tatttcagcc tatcgccctt agactaatgg ctagattgaa cggaccattc 60
 agtcgctgga ggaccgtttg agggcatgtg tottagaaca aaagaggagt tgggagagtt 120
 aaagactact caaagtaggc agaaaaacta tcaggctgct caagaataac tgagaaggtc 180
 aagttaatcc aagaaaggct aaagactgct caaagtaggc agaatagcta tcaggacaag 240
 aggaggaaag acctgaaatt tgagattggg gatcatgcat tcttgagagt cattccattg 300
 attgggttgg tcaaacattg aaatcccaaa naactatacc tcagtttacc aacccttttc 360
 anattctcaa atgagtcagt cctacggcat accaaaatgc attacctctg tctctttaca 420
 atcttgacaa tatctatcat gt 442

<210> 18068
 <211> 319
 <212> DNA
 <213> Glycine max
 <400> 18068

ttattttata tccaatatat cctctaaatt attatattaa aaatttatat attattaatc 60
 aaagagattt gaacattaat caaataagtt aatttaaaat atagaattgt ctttaatgga 120
 ataaataaga acaaaattga tttaaacgaa aaacttatct caaatacgtg aatgttatta 180
 ttgaaacttt aaatattatt taatatttga aaataatttt atcaattaat gggttaaacad 240
 gattcgagaa tgtaatatgt acttattata cttcattctt ataagtgggtg attacatgat 300
 ttaaaatatg aggttatcc 319

<210> 18069
 <211> 289
 <212> DNA
 <213> Glycine max
 <400> 18069

tgtaggggta aagtcttacg attttcacgt gctcatgcaa ctattgtgag ccggggctat 60
 atgagacatg gtgccaaaca aagtcagggt aacgataact cgctgtgct ttttcttcca 120
 tgctatatgt agcaaagtca ttgatctagt catgtttgat gagttggaaa atgaggccgc 180
 aattatactg tgccagacgg agatgtagtc tccccctgcg ttctatgaca tcatgattca 240
 cttgattgcy catctggaca gagaatcaca tggtgtggtc ctgtttatc 289

<210> 18070
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 18070

tgcatcatg aacctaacaa acaatactta tgcatatctt cagtrctgct ccaatgaata 60
 aatcgttata agtaaaacat gtatgtttat tctaactcac cccatcttgg agcttgtcct 120
 ctacagcagt ggcacaaaaa agaattaggt tcttctcaat cttatctgat acttctcaa 180
 tcattatata ctgatacaga ctgactacat tcttggccct agagaattta ctatcaaact 240
 ccttgtattc ttctgcatca agttcacgat aggccagtat aaaggttctc agaccgcat 300
 cagcatactc atgcacatgc tccatggttt tctcttcaaa ctccctccta ttcttggcaa 360
 gcctttcaaa cat 373

<210> 18071
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18071

ttctntacta tgcaaggaat aaccaaggaa aattccttca tctgacttag catcaaactt 60
 tcctaagttt tcttttccat tgtttaatac aaaacactcg caacaaaaaa catgaagatg 120
 cgagatgttt ggtttcctaa cattgaacag ttcatatgga gttttcttta aaatgggtct 180
 tattaaagcc ctattcatga tatagcatgc agtattaacg gcttcagccc aaaaatattt 240
 tggaagaaga gtatcattta ataaagttct agcaatntct ttcaaagaac tatntttcct 300
 ttcaacaact ccattntggt gaggggttct aggtgcagaa aagttatggt cagtgtcatg 360
 cttatcacan aataaatcaa attatttatt ttcaaaatca ccccatgata anctctaata 420

<210> 18072
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18072

tctttacttg tatgccganc aagcgcta atattggagac ctatgatattg aataacacaa 60
ctctcgagaa attcaatggc ataacttttc acacggatgt ccgattcttg cgcataatat 120
gtcgcagagc tcgaaattga acaacggaag ctctcgagac attctaattg tcataacttt 180
tcactcggag gatccgatca ggcgcataat atatcgagac gctcgaaatt gacgaacgga 240
agctcccgag aaattcaaat ggtcataact gttactcag aggtccgatt caagcgcata 300
atataatcgag acgcacgata ttgacatctg atgctctcta gaaattc 347

<210> 18073
<211> 370
<212> DNA
<213> Glycine max

<400> 18073

cccaccatat ttccatagta taacactggg aatgtgtcta ttattattgt gatcatctct 60
ttctctcat ggaacgtacc acttgagctg ccaagtctct ccacctttgg gcgtattctt 120
tgaaagataa gtgccccctt atgcacatgt tctataagtg catactatcc ggagccatat 180
taaaattatg ctgatactgc ctaacatagg aaaccattag atccttccat gaatggactc 240
aggaaggatc caagttagtg taccatgtaa caactacccc agtaatactt tcttgggaaga 300
tatgtatcaa tagatcctca tctttttcgt atgccgcgt ctttcgacaa tacatcttta 360
gatggttctt 370

<210> 18074
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18074

taagctntga gcatattcta acgacaataa ctgtataatc ggatgtcctt attttgtccc 60
tgattatatc aaactgctcc aaattgaaga tggaagctca gtacaaattt aaacgagaat 120
aactttttac tcaaatgtgc gattgagtca cgtaatatat cgagacgctc tatattgaaa 180
acggatgctc atatcatatg tgaaccgtga taacttttaa ctccgatgag cgattgagtc 240
ctgcgatata ttgagacgct caatattgaa cacagaggct ctgcgcagat gctaacaaca 300
atatcttttt actcagatgt ccgattgagt acttgaatat gttgagacgc tcgaaataga 360

aaacaaacgc tcctagaaaa ttcaaacgaa taacgtttta ctcacatggt cgactgattc 420
ccgtatatat cagacgctct aaattgaaac gaagctc 457

<210> 18075
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18075

agcttatctt cactttgtac atgcagccta tcaaggatat tggctataa tcatttangg 60
actgaggatg gttaactttg gggataagag ccaagacaga ggcattgctg cctctatgga 120
aacaaccggt gacatggaac tcattccaaa atcttctgaa ctctgggttt agcacactcc 180
agaattcctt aataaaattg aaattaaaac cgtccggccc atggcactta tcttcaccac 240
aactccacac tgettgtta agctcctggt ctgagaaagg taaaattaaa cctccctct 300
gcctttgatc aagagaatgg aattgaactc catcaatggt aggcctacag ggattctgct 360
caaataatct gttgagaaag atagtcacag cgcctatctt cacctcctct ggttgctgga 420
cccacag 427

<210> 18076
<211> 391
<212> DNA
<213> Glycine max

<400> 18076

agcttatatg atattcaaat ggtcataact tttgactcgg atgttcgatt caagcgcata 60
atatatcaag acgctcgaaa ttgaacaacg gaagcattaa agaaatccat atggtcataa 120
cttttcacac ggaggtcaga ttcattgcga taatatatag agacgctaata aattgaacaa 180
cggaagcctt cgtgatatgc aaattggcat aacttttaac tcggatgtca gattcaggcg 240
cataatatat cgagacgctc gaaattgaac aacggaagct ctctagaaat ataaatggtc 300
atatctatta actcggatgt gtgattcagg cgcataatct atagagacct ctaaattaac 360
aatggagctc ttggcaatca aatgtcataa c 391

<210> 18077

<211> 339
 <212> DNA
 <213> Glycine max

<400> 18077

aataacttta actcagaagc tttatcaaat gcaaaggca ataacatttt actcgaatgt 60
 tctatttagt cacgtaatgc atcaaatgc tcgaaattga taacagaagc tcggtgcgaa 120
 ttcaaacyac aattagtttt tactcggatg tccgaatgag tcccttcata tatcgagacg 180
 ctcgaaattg aagacagaag ctagtactaa attccaacga caatcatatt ttactcagat 240
 gtccgatgga gtactctaata atatctagac tcttgagatt gtcaccgaag ctctgagcaa 300
 attcatagca acaataactgt attttcgaat gtccaatgg 339

<210> 18078
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 18078

atcttctata ctttatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
 gatataattaa gaaggggggg ttgaattaag atatcccaa ctattttccc aattaaanaa 120
 ttatttcact ttcttttcaa gttatagatt cccttaacaa tgaacttctt aaatattaat 180
 tcaaatcaaa caatttgaat atgaatgtaa agcgataata aacaaaggag attaaggga 240
 gagaaagtgc aaactcagat ttatactggg tcggccacac ccttgtgcct acgtccagtc 300
 cccaagcaac ccgctggaga gttccactat cttgtaaatt ccttttataa gttctaaaca 360
 cac 363

<210> 18079
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18079

tctgtcttag tctgagttca gcttaccatc ctgagactga tggccaaact gaacggacca 60
 ttcagtcgtt ggaggacctt ttaaaagcat gtgtcttaga gtagaaggga agttgggaga 120
 gttttcttcc attgatagag ttcaattata ataacagtta tcaactctacc attggcatgg 180

ctccctatga agctttgtat ggtagaaggt gtaggacacc cctatgttgg tcaaagcccc 240
gagaatgcct caccttatga ccagaagtgg tacaacaaac cactgagaaa gttaagttaa 300
ttcacgaaag gatgagaacg gctcagagta cgcaggatag ttatcatgat aagaggagga 360
atgatttgga atcgaagttg gtgatca 387

<210> 18080
<211> 328
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18080

agccagtcta ngttcataca ctgatccgtt caatnggcat accgaggaag aattatctga 60
cttgtaacct ttgggaaatt ccatataaac ttcttcaaac aaatctccat tctaaaaggc 120
attattaaca tctaattgga gaatgcacca atttctagta gcatcaacac aaagtaaaac 180
tctcacagtt gtaagcttgg ccaactggaga aaaagtgatg tatctccatg tggaaacttg 240
aagccttgaa tcttctttat caatggagtc ctttacttct tgaatatcaa tggccgcgga 300
atggagaacg aagaaagatg attggaga 328

<210> 18081
<211> 466
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18081

actaagctta ttaaagttat atggcttgaa acaagcaccg aggcagcgtc actatatgtn 60
taatgagtnt atgagcaagt caggattcaa cagatgtgac atggaccatt gttgctacgt 120
taagatatat actaatagct atgttatcct tgtcgtgtat gttgatgaca tgttgatcgc 180
aggatctagt atggcagaaa ttaacagggt gaagcaacag ttggcagaaa acttttggt 240
tgagaattct tagaaacata tcagaaggaa ttatgaagct gcctcatgag aaatatatac 300
acaagttact tgacagggtta taccttgaag attctaagac tangaatacc cctttgggat 360
ctcattttga agtttcaaag aagcaatctt tgtagacaga tgaagaaaaa tgctacatgg 420
taagagtacc atatgcatca tcagtcgaca gtttgatgac cgttat 466

<210> 18082
 <211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18082

gttggaacaa acaggligla tnacaaattt gtatctcata tgcatacat nngnggaat 60
 taaaacaaca tcaatttcag ccccatcttac atgtttcgat ccatcgaaat ataatatcca 120
 aggtttaatt catatatagc attccaatat tttgatgttc gaatgatcaa ccaagagatc 180
 tacctataac ttaggtctta atagctttta atggcacaaa agtaaggga aatccagata 240
 atgcaagggg ccatttcctt attctattgt gcaaaataga ttaagacaac atanatttaa 300
 taacattggt atgagagagt acttgaacat tgaaagattc tatataatac ttnaagttag 360
 tacaagaata atacaagtgt aagcacagtt nntttattgc actatatcta atnttgacat 420
 catta 425

<210> 18083
 <211> 414
 <212> DNA
 <213> Glycine max

 <400> 18083

ctgtagtctt tggacacgac agagaccttg aagtttcgt tgtggtatcc agtgaagaca 60
 ttttcacggg gtgaccatgc tgtgccagga tggatgcta tgaatgcac agtgacatcc 120
 tggccagcac ggtctgagat tggaacatca ccaccagggt gctccttgac ccaatctgag 180
 acattgtaca ccttacctcg aattgagatc cataaatctc cctccttggt gtgacccttc 240
 agtcctctg aggttatgta cttcttctcc ttctcaaaa cctccattgc ttgtgttaac 300
 caaaaacaac acaaatcact gaaatcatac acaatgagaa ctacaataag aagatatata 360
 gaatatagac agattgatcg atacgaacaa taatggcgta tctgggtctt ctgc 414

<210> 18084
 <211> 337
 <212> DNA
 <213> Glycine max

 <400> 18084

atctatctct cttgaacaaa taccctcag ccgaatagaa tccatcttag gccttcttcc 60
tacaactctc gtaaatggga gagaaatggt catctatagc atacaagtcc ctaatgtcat 120
caaatcctat aattagagct cctacagagc aataaaatgt gtgtctctta gagagggcat 180
caactaccac atatcgcttc cctttttgtg atttgataac atatggaaat tgctttaagt 240
actclaccca ttttgcattg cttttgttta acttgctttg cctctaatg tacttaaglg 300
attgatgac actatgaatg acaaattcct tggaaac 337

<210> 18085
<211> 386
<212> DNA
<213> Glycine max

<400> 18085
tttatcttat tctcaattg gtgacccaag agaacatttt ttttatctaa ccacccatct 60
attggtgaga ttaaaaatgt agttttcatt atgagtagct ctagtccccc tatccctgat 120
ggtttcagag gccacttcta ccacaggtac taggaaatta tctcaaaggt tgtctataat 180
tctgtccttc aactttattc ataagaattg gcttctcctt ggatttaaatt caaacatttt 240
ttgcctttat tcttaaattt ccataagacg atagaataga aaacttcaga cccactgctc 300
tgggtaattc ccaatctaag attatctcta aaatcgtcac aagtagattg gcctaaatta 360
ctcctaagct gatgtttaat aaccaa 386

<210> 18086
<211> 419
<212> DNA
<213> Glycine max

<400> 18086
agcttctttt atttaagatt tttcttttaa acagtcctaa gcagtgtgcc taaagtccta 60
ttgactacct cagtttgacc atcagtttgt gggtgacaag tagtagaaaa caacaattta 120
gtaccaatct taccacaaa ggtcctccaa aagtgactaa tgaattttgc atccctatca 180
ctgacaatgc tctcggtaa tccatgaagc cgcactattt ctttgaaaaa caaatcagcc 240
acatgacaag cgtcatocac tttcttgcaa gggatgaagt gtgccatctt atataacctg 300
tcaacaacaa caaacacaga atcctttcca ttcttggttt tgggcagccc caaaacaaag 360

tccatagata tgtcagtcca aggatattca ggaacaggca aaggagtata caatccatg 419

<210> 18087
<211> 449
<212> DNA
<213> Glycine max

<400> 18087

atagaatact aagcttcaag aataatggcc tcagcatact tcttattccc atattgttat 60
tcaattatta ggctcctat ttttaattga gaaggttacc actactggaa aaccgcaatg 120
caaattttta ttgaggcaat agacttaaac atttgggaag ccatagaagt tagaccttat 180
gtaccacca tgggtggtgg aaatacaaca atagagaaac ctatacaaga gtggtatgaa 240
gatgaaagaa gattattgca gtaccaatta taggctaaaa acatcattac ttctgccta 300
ggaatggatg gatatttttag ggtttcaa at tgtaagagt ctaagaatat gtgggacact 360
ctacaagtta cacatgaagg aacaactgat gtcaaacgat ctaggataaa tactttaact 420
catgagtatg aactattatg atgagaaca 449

<210> 18088
<211> 395
<212> DNA
<213> Glycine max

<400> 18088

agcttagtct ctttacatat tgtgaacaag acatctaagg ctctggtaat cgattactag 60
gcagtgtaat cgattaccat aagacaattt tgaaaaatag ctgtctaaca ggattatgaa 120
tttgaattat gacctgttaa tcaattgatg ttgtttatcg attaccagca acagaactct 180
tgaaattcaa attcaaaagt catgaccctt cataatataa ccgtgttata gattaccaga 240
aacctgtaat cgattactag tgaaataatc agaacaagct ttatgaatag acacatctct 300
tctaaccatc ttgaaaaggc acaaagggcc tatatgtatg tgtgtctggt ttcataaagc 360
aagagagaga tattccaaga gaacttcatt gtcaa 395

<210> 18089
<211> 447
<212> DNA
<213> Glycine max

<400> 18089

aagcttacat acattatott caaagatcgg aattcaacta atttctccg atgcttctaa 60
ctctgaaaat atctatgttt gacactaagg ataaagttat atactaataa tgataatatg 120
tgtctctttt atctccaaca agttatccaa ataaataatt ccttttgttt ggaaggaaga 180
tlyalagala cdaaalglia acatataata ccatgtcata agaaaaaaga gatggattac 240
aataatcaac attctttttt aagtgtttgt cttagaataa tgatattcat catattcact 300
ctctggatac aataattttt atctcatatt tactctcttt aatgttctct atctctttta 360
ccacataaca tattatatct ataaattttg ttctttatta tatttatttc tctctatccc 420
tatctttcat ccaccattga ccctaatt 447

<210> 18090

<211> 420

<212> DNA

<213> Glycine max

<400> 18090

agctttgctt attattaaga tgataaaaaa ttctgatgag ggtggaaaag ttcaaagcaa 60
gatacaatgg cacattcagt gactgaggca gactatatag cgacaagtta agccgctgaa 120
gaagttgatt ggatgaacag ttcatctctg aacttggtga gctaccttca ataggaggac 180
cgattccact attgtgtgac aatgatggagc tatcgtttaa gcaaataacc aagattacac 240
cataagacca aacatatttt atgaacgtat cacttgatta gagagatcat tgaacgtggg 300
gacattttaga ttgaaaaggt ggatataaaa gagaatgcaa catatccatt caccaaggca 360
ctttgcataa aagaatttat caagcacaag gtggaagtta tgatgaagtc atgagtaatt 420

<210> 18091

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18091

agcttggtgt ctatgtctca aaaccacat tagaagtaag acttatacca tattcaccgg 60
acaactcaat ttgttagaca ttatcattgt tcttgaccag tacttgaaaa ggaccatctc 120

cttttggcat aagtcttgtg aagggaaccg tttctttcct aaaatgcacc catacctagt 180
cacctgggttc aaatgttact ttttttctta ctttgtgttc atactatcga tacacttcta 240
ttttntttct ctcaatttgg gcattgactt tctcatgcaa cttcttgaca tatgctgctt 300
taaccttgcc agacttatct ttaaactcgag aaatgttacg taaagaccac aaatacaaag 360
gaqtca 366

<210> 18092
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18092

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acanaataaa ctgtcatatg gattntagt acagcccaac gattcactac cttgaactaa 120
catccatata agacacaaac tgcaccctct gaacacacat gatcttaacc ctaacaatct 180
acattgagca agcttaagca gtgatcaaac ttgctctttg gaactggctt tgtaaacata 240
ttagcaggat tgtgcagagt gataatctta tgaacttga ttcttctttc tgaccgaatg 300
aagtgatatc taacatctat atgcttgggt ctatcatgat gaacctaate cttggccaag 360
catatagcac taaggctgtc acagtagatg ttagcatatt cttgattaat ttcgagatca 420
tctatcagac ctctca 436

<210> 18093
<211> 429
<212> DNA
<213> Glycine max
<400> 18093

taagaggacc ctccgtgtgg tagccgtaaa cctcatatgc cttattcaaa aggtgcttga 60
agagaggggtg acaaagatac gaaattggga tcacaaatct ttgagacca actccaccag 120
cttcttctgt ctcttcttcc acttgaacag cgagccaacc cttcttcacc ttcattcttct 180
ttcttgcccta ctgagagata gagcaaagca aagggaaccgt attattatag ctgctgagtc 240
acaatggtag gtaatgtggt ttctttcttt tatatagaaa agatatatat atatatatta 300
aatgggggta taaatttgta ataaaaataa ataaaaggga taataacttg atgctgtgtg 360

tggtgtgtac gtgattcgga atcaaaatag tggggaaggc aagggacagt gccgtcccat 420
tccgtaact 429

<210> 18094
<211> 436
<212> DNA
<213> Glycine max

<400> 18094

tggtgattctt ctgcacctgt ataagagggt agctttcggt tcaattaatt tatcattcac 60
gtgatcaaga tgtagaatt aatgtcttat gtgagagaca tgtgggacta ataaataaat 120
aattaataat taaggactaa attgtaattg ggtaattat gagaagtggg tataaaaggg 180
gttaatatcc actaacgtga aataaagttc ttttctgac agaaaaatgt tctctctcac 240
catagttatc acgaacggag agaggcaaaa aagaaagggt taaggaagtg aaatcttatt 300
tatctcatct ttcaaggaaa tctaagtaca tcggagaaaa gtcttcttat gaagaaagggt 360
acacattatt atctatttgt ttattgatta tttgtgagaa tcatagggtt caagatcttg 420
ttatttctta taatta 436

<210> 18095
<211> 426
<212> DNA
<213> Glycine max

<400> 18095

tttgacggac tataccaagc tctatgtaac ttgggtctga gaaagatcta tatataggct 60
tgctaagggt agagagagga agactagaga tttggatcaa gtaaagtgtg ttaaggatga 120
agaaggcaaa gtcttagtgc atgaaaaaga tatcaaggaa aggtggaagg cgtatttcca 180
caacttattt aatgatggat atggatatga ctctagcagt ctagacacat gagaagagga 240
ccggaactat aagtactatc gtcggattca gaaacaggaa gtaaaggaag cgttgaaaag 300
aatgagtaat ggtaaggcgg tggggccaga caacatacct attgaagtgt ggaaaactct 360
tggagataga ggtcttgagt ggctcaccga actctttaac gaaattatga ggtcaaaacg 420
catgcc 426

<210> 18096
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 18096

tggatacggg tctgtgagta atcgcttagc tcacataatg atacgcaacc tattcgtaat 60
 actgggggttc atattagact gaaaataaay ggatgacaca caaaggacag cattgacagc 120
 tgctcacact gattcattta caatgaggat gaagtatctg ttttgttcga cgaaagtatt 180
 tagaacttca taaaaaatgc cttttgaaaa taagtagcat gcacctttca aatcaacttg 240
 aaatcagaac aagtcacaca aatgggagct tttacctcaa gaaatttgaa gtcagggtta 300
 atgggtacaac agatgccttc ttgtgtcaat aaagaacgaa ttacaagtga aaacctttct 360
 gggattcgaa tgggataatc 380

<210> 18097
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 18097

tcctttctat acccgcttca gcaaatgtca ttttatttcc cttcaccacc caatagacat 60
 gatgctcaat ctccattgga agatgacatg ccttaccaaa aaccacctta tagggagaca 120
 tccccaaagg tggtcggtaa gcgggtcatgt gggctcatag agcatcctca tgtagcttgc 180
 tccaatcctt cctattgggt tgcattacct tctacaacac ttgcttgatc tctttattaa 240
 aaacctttga ttgccatta gttcaaggat aataagctgt agcaactcta tccacaacct 300
 catacttctg gagcaaggat gccaatgacc tgttacagaa gtggctcccc tggtcactga 360
 taatggctct agacacacca aacctactaa aaatgttaga tctcacaaaa tccacaacaa 420
 gtttagaatc att 433

<210> 18098
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 18098

gcttgaggtc cctatgcatg accccaagcg agtgacacgc ttcaacaacc tcaacaatcg 60

tctttatcaa cctcgccgcc tgtctctcgc tgtagtgtcc cttctgcacg atcctgtcaa 120
 acaactcccc accctcacac aactccatga cgaggtgcac cgccgaggaa tcctcgtacg 180
 tcccttcgat gcggacaacg tgcgcgtgct ccgacaagtg gtgcattatc tgaatctccc 240
 gccacacgtc ctcgtagtcc tccttgcaca gcagcttccg cttgggaatt gacttgcacg 300
 cgaatttccc cccggacgcg cggcgcgtgc actcgaaggt agtcccgaat tgaccctycc 360
 ccaacttcgg cccacctcg tacacctcac 390

<210> 18099
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 18099
 tctaaacttt atacaagaat gaagctctgt taccatttgt tggacaagtg gcctcagata 60
 tcttaagaag ggggggttga attaagatat tacaaattat ttccccaatt aaaaattcta 120
 ttttaactttc tattcaagtt ataaattccc ttaataatga atttcttaaa tattgattca 180
 aatagaaaaa tttgaatatg aatataagac aataataaat aaaggagttt aagggaagag 240
 aaagtgcaaa ctcagattta tactggttcg gccacaccct tgtgcctacg tccagtcctc 300
 aagcaaccgg cttgagagtt ccactatctt gtaaattcct tttacaagtt ctaaacacac 360
 aaggacaatc tttcctttgt gtttagaatt ctttcacaac aagagaccct cggctcttta 420
 atcccttttc 430

<210> 18100
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 18100
 tactcaagct ttgcataccc caaggatcca ttaggaaatt acttgtaat tatagtctga 60
 ggggtgggctc atggggcact ttgggataga caagaccctt gccttactca aagaaaagct 120
 ttattggccc catatgaaga aagatgtcca taagcagtgc actaggcgtg tggcttgttt 180
 acaagccaag tctaggggtga tgtctcatgg gctatacaca cccttaccba tcccatctgc 240
 accttgggta gacattatta tggactttgt ccttgggctt cctagaacct acagaggtgt 300

aaactctatc tttgtggtgg cggataggtc tagcaagatg gcacactcta taccatgcc 360
cgaggtggat gatgct 376

<210> 18101
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18101

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gttaatgagc aactcgggat tcaaaagatg tgacatggac cattgctgct atgttaagaa 120
atatactaata agttatgtta tctttgtcgt gtatgttgat gacatgttga ttgtaggac 180
tagtatggca gaaattaaca agttgaagca gcagttggca gaaaactttg aaatgaagga 240
tcttggcca gctaaacaaa tccttgggtat gagaattctt agaaacagat cagaaggaat 300
cttgaagctg tctcaggaga aatatataca caaatggctt gacaggtttt accttgaga 360
ttctaagacc aggaataccc ctttgggatc tcattngatg ttttcaaaga agcaatcttt 420
gcatacagat g 431

<210> 18102
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18102

ntgaaaaata cctgtgcttc cgtaaacttt atttttttat gtgatgcaag ccagccaaa 60
tcatgctcca tgtattcgaa aacaaggat aagctgcaag acatccttga tgtaacaagg 120
ccttcagtt ttatgacatt tggatgatca agcctacgta gaatgtgaat ttccttgcc 180
atgaagcgaa cactctctgg ctcaagatta tcaaacctga ctttttcaa agcaacaatt 240
ttattttgct caagatcacg agcctataa acattactat aagttccctg tccaatctga 300
aaaataagga ggaaaatctt accattcaag gaaaactaaa acaggctgaa gacaatatca 360
tcatttaatt gcaatccaag aaaaaaaaaa aaaaaagga tatctataaa tctagaaact 420
ac 422

<210> 18103
 <211> 426
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18103

ntgacaagac agtacacact gctgtcttct acaacattat aaaatatgga aatctactct 60
 aaagatacat ctaataatac ccataattat aacactcccc ctcaagctgg agcatataaa 120
 ttatatgcac caagcttggg acatataaac tgaattctag gcccccttaa ggatttagtc 180
 aaaatatctg ctggctgac attggaatta atgaattcag tgacaatctc tttagacagt 240
 agcttctccc gaataaagtg acagtcaatc tctgtgtgct tggttctctc atggaagact 300
 ggatttgaag caatatgaag agcagcctga ttatcacaat acagcttcac ttgcatcact 360
 ttgcagaatt tcaactcttc aagaatttgt ttgaccaca taagttcaca tgtaactaca 420
 gccata 426

<210> 18104
 <211> 421
 <212> DNA
 <213> Glycine max

 <400> 18104

tgtagggtta aagtctcacg attgtcacat gtcctgcaa ctattgttag ccgtggctat 60
 acgacacatc ttgccaaaca aagttagggt cagcataact cgcctgtgct tttcttcta 120
 tgctatatgt agcaaagtga ttgatatagt aatgtttgat gagttggaaa atgaggccgc 180
 aattatattg tgccagttgg agatgtattt tccccctgct ttctttgaca tcatgattca 240
 cttgattgtg catctggtca gagaaatcaa atgctgtggt cctgtttatc tatgggtggat 300
 gtacccgggt gagcgatata tgaagatctt aaaaggttat acaaagaatc tatatcgtcc 360
 agaagcatct attgttgaga ggtacattgc agaagaaagc cattgaattt gttcagaata 420
 c 421

<210> 18105
 <211> 421
 <212> DNA

<213> Glycine max

<400> 18105

tggatttact ttttagtaggg aatctatctt tcctatgatg gagaaaagaa gttttgttcc 60
tagcttagcc cataagggtt tccagaagtg gctaaggaac ttagcatctc tatctgacac 120
aatggtccta ggcaaaccat ggaatctcac aacttccta agaaaagatt ttgagatgtg 180
ggaagcatca tccacctgtt ggcattggtat aaagtgtgcc atcttgctaa acctatccac 240
caccacaaag atagagtcta cacctctttg ggttctagga agcccaagga caaagtccat 300
actaatgtct acccaagggtg caaaggggat gggtaagggt gtgtatagcc catgaggcat 360
caccctagac ttggcttgta aacaagccac acacctagtg caatgcttat ggacatcttt 420
c 421

<210> 18106

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18106

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aatttctcca ctgtattccg tgtgacaagt gatgaccatt ttaatttctc gatagcattc 120
gttgttcaat ttcgagcgtc tcgatatatt atgcgcttga atcggacttc cgtgtgacaa 180
gttatgacca tttgaatttc tcgagggctt ccgtttttca atttcaagct tcgagatata 240
ttatgcgcct gaatcatact tccgtttcaa aagctatggc catatgaatt tctcgagagc 300
aatcgtgct caatttcgag cgtctcgata tattctgcgc gtaaatcgga ctttcgtgtg 360
acaagntatg a 371

<210> 18107

<211> 418

<212> DNA

<213> Glycine max

<400> 18107

tctcgatata ttatgcgcct gattcagagt ttcgttttta aaggatatgac cattggaatt 60
tctcgagagc ttccgatgtt ctatttcgag cgtctcgata tattatgcac ctgaatcgga 120

cttccgtgtg acatgttatg accatttttag tttctcgaga gtttctgttg ttcaatttca 180
agcttctcga tatattatgt ggctgaatcg gacttccgtg tgacaagtta tgaccatttg 240
aatttctcgg gagcttttga tgttcaattt cgagcgtctc gatatattat gcccttgaat 300
cggacttttcg tgtgacaagt tatgaccatt tgaattcttc gagagcattc gttgggtcaat 360
ttcgagcatc tccatatatt atgcgcccga atcggacttc cgtgtgacat gttatgac 410

<210> 18108
<211> 390
<212> DNA
<213> Glycine max

<400> 18108

agctattgag caattgaaat gtgtcataac ttttcaattg gaggtccgat tcatgcgcat 60
aatatatcga gagctcgaat attgaacaac ggaagctctc gagaaattca aatggtcata 120
acttttcaat tgggggtcag attcagggcg ataatatatc gagaagcttg aaattgaaca 180
acggaagctc tcgtgaaatt caaatgggtca taacttttaa ctcggaggtc caattcaggc 240
gcataatata tcgagacgct agaaattgaa caatggaagc tcttgagcaa ttgaaatggc 300
cataactttt cactcagatg tccgattcag gcgcataata catcgagacg ctcgaaactg 360
aacaatggaa gctcttaagc aattcaaagt 390

<210> 18109
<211> 435
<212> DNA
<213> Glycine max

<400> 18109

tactcaagct tcatgcgaga gtcaaagatc aaattgagag gaaaattatt atctattcta 60
aacaagccaa caaaggaaga aagaagggtg tcttcgaacc cggagatcgg gtttgggtgc 120
acatgagaaa agaaagggtt ccggaacaga ggaaatcaaa gcttcaacca aggggagatg 180
gaccatttca agtgcttgaa agaatacaata acaatgctta caaagttgag ctgcccgttg 240
agtataatgt tagttccacc ttcaatgtct ctgatttatc tctttttgat gcagatggag 300
aattcgattt gaggacaaat ctttctcaag agggagagaa tgatgaggac atgttcaaga 360
gcaagggcaa ggatccactt gaaggacttg gaggacctat gacaagggtc agagcaagga 420

aagccaagga agctc

435

<210> 18110
<211> 372
<212> DNA
<213> Glycine max

<400> 18110

agtcttttgt accgtgcacg tggccgcatg aactgcaaga aagaaattat agcaccagca 60
aattacaaga cttgccaatt tctaaaagct tcaatgtagt gtttcattct tctgccttgt 120
ttaccaataa cacaaattaa aatcactaag taaccatgtg cacctgataa tcagataatg 180
caccatatga tggattacag gaatcacccc aacgcccgtg tgggtattga tcccatceta 240
ttgtccttga tatgtagctc tctggacgat ttgccctatg atagttgcat atagaacgta 300
agaaatcctt cagacagata cttcctttct atattttgga acacgacata ccaattgcaa 360
agaacatacc aa 372

<210> 18111
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18111

actcagctgt cggaggggaat ccatggcccc ggtaatttg gtgnccatga cctccacggg 60
gggctccttc tcgggatcca gcggtgcacac gaagatgtca agccccggca gcttctcctc 120
cctcggcagc ttctccgtca tgacgtccg cgacaccggc cgccaccgga aggcttgggt 180
gaagaaccag agcaccgaga gaagaagctc cgctacggtc atcagaagcc atggcgctgt 240
tggaggttcc agtaacaagt gagttatgcg gtagtaacac agcgacaaca ctgccactaa 300
gtggatcagc atgtgaagtc tgctcagtc caaccatgat tgaacccgtt caacgcggta 360
cgtgaacatt ggctatctta tgttctcctc gaatttctat atat 404

<210> 18112
<211> 379
<212> DNA
<213> Glycine max

<400> 18112

agtttatgct gcaaacattt ataatagacc ctttcagcag caaaatcaac aacaacagaa 60
taataatgat ctttcaagca acagatgcaa tccagggttg aggaatcatc caaatatgag 120
atgggcaagt aagtcatatg ttctctctcc aatgcagcaa taacaaagac aacaagcaac 180
tgaggcacct cctcaacctt ctttagaaga gttagtggag caaatgacaa tccagaatat 240
gcaatttcaa caagagacaa gagctccatt cagagtacga caaatcaaat ggggcatatg 300
gctactcagt tgaaccaagc tcagtcctaa aattctgaca aattgccttc acagactgtg 360
cagaatccga aaaatgtga 379

<210> 18113

<211> 345

<212> DNA

<213> Glycine max

<400> 18113

agcttgtaat cgattactag aggagaattt cataaaataa ttttcaagag tcacatctgt 60
tcaaatgatt ttttaatagc catcaaaagt ctatttatat atgacttaga acacaaattt 120
gcttagagtt tttcagaaca aaaagggtctt attctctcaa aagcaaaatc atcttatcct 180
cttagaaatt ctttggtcaa tacgcttgca attcaataag aaattattag agcgctcaat 240
tgttcaatct atctctttca agagatattt cttcttctct tcattctatt tcaaaaaagg 300
gattaagaga ccgagggtct cttgttgtaa agcaatatga acaca 345

<210> 18114

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18114

agtttgttcc acttcacgtc tataatatga atgtagcata tagatccaaa gacccttacg 60
tgctttgctg atggcttctt accgttccaa gtttcaattg gggctttgtc ttttatagac 120
ttagttggac atctgttgag tatgtaaata gcagtgtaga ctgtttcatc ccataatgtg 180
ttaagtagtc ctttctcctt gagcatcgat ctagecattt ccataactgt gcgattcttt 240
ctctcggaca ctccattgtg ttgaggagaa tatgcgactg taagttgtca ctcaatgcct 300

tcacccac aaaatctttc aaactcgca gaggtgtact cnttgccgtg atcacttctt 360
 agtactttta tccgttttcc ac 382

<210> 18115
 <211> 334
 <212> DNA
 <213> Glycine max
 <400> 18115

taataagagg catgctaagt gggtagagtt tttagtgcaa tttccatag tcacaaaca 60
 taaaaagggg aaaggaatg tagtggtga tgcactgtct aggagacatg ctttacttgc 120
 tatgcttgaa actaaactgt ttggtctga gtctttgaaa gacatgtatg tgcacatgt 180
 ggactttgct gaaatctttg ctgcatgtga aaagttttct gaaaatgggt actataggca 240
 taatggattc ttgtttaaag caaataaatt gtgtgtgctt aagtgttcca ttagagagtt 300
 gcttgtgagt gaatcacatg aggggggggt gatg 334

<210> 18116
 <211> 273
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18116

ttttcacaat atttaccaac aacatgagaa tcatagtatg ggttggttnt gagaaaatgc 60
 tcaggatttg tgggtgcttg aataatgatt ttaaccagg cattatgtac atgtacatct 120
 tggattcctt cacttacaag atgtccaag aattgagtan caagcggaga cgattcctat 180
 gcataaaaa ttaaatgaga aataaacatg gcaatgatag tggagatgaa agctagagag 240
 aaaactagca cacctcttct cacattcttc aac 273

<210> 18117
 <211> 356
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18117

agttttttct ctgctcct atggnggaga gcttcttcta gactcatctt ctcttgaag 60

tggcgtctcc tctctctctt cctttctcca ttccgctgcc attcatcttc caagaagcaa 120
 aggaatccat tgatgaagaa gacccataggc ctacaagctc caatggagct tgcacacat 180
 tattaccaa gcattaggaa ggcacatcaatt tcagatattg cttggcaagc tgggcattcg 240
 taatcctcat gcaccacctt gagggggggg gggtaatacc gtatattcca atggctcgat 300
 tcaaggcata atcatctgga tcgllctyca tgggttaact aatagttat tccctt 356

<210> 18118
 <211> 385
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18118

atcttatttc gttgtntgct aatggagacg acgcaataga ccttacatgg catgcaaatg 60
 ggagaaactg cgatggaatg ctccgtcatc tggctgattc ctgcagtgga aagaagattg 120
 atcgtttgta tccggatata agcaaagagg aaagaaatct tatgcttgga gtagctagt 180
 atggaatgaa tccatatggc agtttaagca tgcaacacag ttcattggcca gttntgctag 240
 taatttaciaa tttgcctccc tggttgtgca taaagcgaaa atacatgatg ttgtctatga 300
 tgatatcagg cccaagacaa ccatgaaatg acattgatgt ttatctaact ccgttgattg 360
 aagacttgac taagttatgg gagat 385

<210> 18119
 <211> 385
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18119

tgctttcctt tctctctctt ttcattgtgt atttctaccc tgcattcat taagctttgt 60
 aattgatcct caacctcatg ccttaacttt gaaaaaacct ccatttctga atcaatagca 120
 gctcgtcct tagtcaatgc aagggttatct tcttctctct cagctcttaa cctttccaac 180
 tcaagtcttg cctcctcagc cattctttca acagcactga tcttttccct ctctatgaaa 240
 agctcctgct caaaacttgc attgatatcc ttctctactt gagctactaa agcactatgc 300
 gcagcaacag cattttcagc aacagattct gcttcaatgc gtgcaagctc ttcactaact 360

atttcagaag catctccagt agcta

385

<210> 18120

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18120

tgcattangg ctgctggtct tctcgtcttc ttctcctacg ctctttagca cagacaacat 60
gttcttccgg aaggaccgca caagtggcca acccaccacc tgcgtcctac acatttcaac 120
tcatcaatat cactttatat attatgatca attaatacgc atcatgaaca tatatggtaa 180
tcatataacg aagttaaaat aagttaattg attatatata gaagaacgta cgttctaggt 240
gactttgaag tattagctga ttagttatca gagacaatta tataattggg ggtggctgag 300
agccatataa gcttgcataa aaataaagat taattaaaca cgtaaaagac tttgtttcta 360
atztatgcta atccaaggcc accctccttt atatctcttt aaaatgactc attgttatat 420
tact 424

<210> 18121

<211> 395

<212> DNA

<213> Glycine max

<400> 18121

tctgctttat tacagctttg atactctccc ttgaggttgc accctcaggc cagtccaatc 60
taccctttct aacatacttc tcagcatgtc ggctaaacat ttgcatgaca caatacatat 120
ttatttatca tattttaagg atcaatcaat tgagattaag ttgcgatggt atgtcactta 180
ctcgactctc ttcaacatgg gctgtggtaa tggaccaagt accctttcca tcatggcaag 240
atgctccaaa ttttcgtgag tctgaaacaa agctccgccc tgtaatataa attcacaat 300
tatggaatag aatctaagag atggataaat actgttttta tacaggattt gagagagcca 360
aacataccgt gcataactca accaagatac atccc 395

<210> 18122

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18122

taagcttaag aaatctctnt atggacttaa acatgcaccg atgcaatggt atggtagact 60
tagaaacttc cttcttgaac aaaaatttga gagaggaaaa gttgataaaa cacatttcat 120
taaaaagtcc cctcataaca ttttactcal gtaagtttat atggatgaca tcatltttgg 180
ttctactaat cgatctcttt gtgaagattt tgtacacaag atgcaggagg agtttgaaat 240
gccataatg ggggggggga ttaaattact ttcttggctt ctatgtgaag aaaattgac 300
catgaacatt tttctatcaa acaaagta 328

<210> 18123

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18123

agcttgctcn ctggagtttt ccgactatgc tcttgtatgg tggaacaagc tacaaaatga 60
gagagcatga aatgaagagc caatgggtga tacatggacg gagatgaaaa agatcatgag 120
gaagcgatat gtgccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaacaaac 180
ccaaggaaac aaggggggtg aggagtattt caaggaaatg gatgtgctca tgattcaagc 240
aaagattgaa gaagatgagg aggtaactat ggctcgattt cttaatgggt tgactaatga 300
tatccngat attgttgagc taccggagtt tgttgaaatg gatgatttgc ttcacaaagc 360
aattcaagta gagcaacaa 379

<210> 18124

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18124

agcccacat cttttcatag tagatttctg gtaatgtgtc tactatcatt ggcatttttt 60
tttccgtcat tgaggtttca cttgagctgc caggtctctc cacctttggg cgtattcttt 120
tgaaagattc gtgccccctt ttgcacatg tttttagtgc gcacccatc cgaagccatt 180

atactaacac tgcctaacga aggcaaccac taggtccttc caagaatgga ctcgggaagg 240
 ttccaagtta gtgtaccang taacaactac cccagtaaga ctttcttga aggaatgtat 300
 cagcaattcc tcactttttg cgtatgceen catcttttga taatacatct ntagatgggt 360
 cttggggcaa gtagtccctt tgtacttgtc aaagtctacc accttgaaac ttgggtgggg 420
 tgatgatat 429

<210> 18125
 <211> 355
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18125

gacctataaa actcagcttc acatcagacc cttcttgtgt ctggactact ttcattggact 60
 tgatggggcc tatgccagtt gaaagccttg gaggaagag gtatgcctat gttgttgttg 120
 atgatttctc cagatctacc tgggtcaact ttatcagaga gaaaacagac acctttgaag 180
 tattcaaaga gttgagtcta agacttcaaa ggagaaaaag actgtgtcat caagagaatt 240
 atgagtgacc atggcagaga gnttgaaaac agcaagttta ctgaattctg cacatctgaa 300
 ggcatcactc atgagttctc tacagccatc acaccacaac aaaatggcat agttg 355

<210> 18126
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18126

tcaattggag tcttgtcttt tacagactta gttggacatc tgttgagtat gtaaacagca 60
 gtgtagactg cttcagccca taatgtgtta ggtagtccct tctccttgag catcgatcta 120
 gccatctcca taactgtgcg attctttctc tcggacactc cattttgttg aggagaatat 180
 gcgactgtaa gttgtctctc aacgccttca tctaacaaa atctttcaaa ctcgtgaaag 240
 gtgtactctt tgccgcgac acttcataga acttttatcc gttttccact ttgattntca 300
 gcaagggcct tgaacttttn gaatactcca nagacttctg attcttcttt tagaaaatat 360
 acccatgtca ttctagagaa gtcgtcaatg aagagtat 398

<210> 18127
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18127

tgtggccgaa caagtataaa totgagtttg cattttctct tcccttaaac tcctttattg 60
 gttattgggtt attgcttatt atttctatct aataaagtta atttgcatta ttatttagga 120
 gtacattttt aaaaggaatc ttgggttatt gggataaaat caaaataaaa ttttttgatt 180
 aggaaaagat tgtgatatct taattcaacc ccccttctta agatatctga ggccacttgt 240
 ccaacagaga gtcttttgcg cttagagcac aggcgcgctt agcgagagac tatgtcacgc 300
 tcagtgcgat aactcaatta gcactatntt taaaaatgca caacctg 347

<210> 18128
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 18128

agctaattat ttatagctgg aggagataag gttgaatgtt tatgaattgt ccaagctgta 60
 caagcaaaag gtgaaagctt accatgacaa gaagctattg aagaagaatt tccaaccagg 120
 ccaggaagtc ttacttttca attcaagact caatctatct ccagtcaagt tgaagtccaa 180
 gtggtctgga cctttcacca tcaaagaggt gaagccttat ggagcagtgg agttgatgga 240
 tcctcaatca aatactccta agagaagttg ggtagtgaac agtcaaaggt taaaactgta 300
 tcatggtggc agcattgaaa gggttaaccac catcttgcac ttgcaagacc cctatagggt 360
 gacatatgtc aagctagtga cggtaaagaa gcgc 394

<210> 18129
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18129

gaagtgaagg cacgctatga tggaactggg gctgncacat cctggctttt tccagtctgc 60

atggagattn tcaacaacaa catgggcaat gtcaccaacc aaaataaaga caatgaaacg 120
cgaagatggc gcaaacataa ccgagcaaga cctcttgag ataccaagag gagcctgcac 180
catggaaggt ctcagattta tgggttatatg cttcttaatt taattattaa actcttaata 240
aatatcttaa gtcacttgag ccttttttca atttaattag tattttttta ttaaaacatt 300
gtcactagta tglgattaac ctatctcttt gttattgata caagattlaag clattctcal 360
ctcaagttat tttattaact atgctcttat tggaca 396

<210> 18130
<211> 374
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18130

tctttcttnc atttgtactg ncttcatgtg attccttttt ctcctctac gattattatc 60
tcgcacatcc caatggtgaa agtgtgcgaa attgagtctc gaacaatgta tcaaaatttc 120
ggaaaaatcc aacggttaac gaatccggaa tcatagtttt accgagacag ctttgagttt 180
ctgcgaaaaa agaaaaagtc acgatgcgaa caatagttct ctcactcca acatcttttc 240
gtaattcca acggtgagaa tgctcggaat tgagttgtga accattttct taaatntcac 300
gacgaaccaa cgatgaatga gtccgagatc gntcattttc tgaaacagat ttgatgggtct 360
gcatgataaa gcga 374

<210> 18131
<211> 392
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18131

tgcttcaaga ataatggcct cagcaaactt cttatttcca gaaggaaatt caatcaatag 60
acctctaate tttaatggag aggggttacca ctactggaaa acctgaatgc aaatttttat 120
tgaggcgaag ccatagaaat agggccttat ataccacta cagtagaaag aaccacaata 180
gatggaagca caacaagtgg aagcacaaca atagaaaaac ctagagatag atggtctaaa 240
gaggataaaa gacgagtaca atataattta aaagccaaaa acataattac atctgccttg 300

ngaattggatg aatatttcag ggtttcaa at tgtaagagtg ctaaggaaat gtgggacact 360
 ttacaagtaa cacatgaacg cacaacagat gt 392

<210> 18132
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 18132

tagcttgtgc ctcttcacgt ctgaaatatg aatgtagaat atagatccaa agacccttag 60
 gtgctttgct gatggcttct tccattcca agcttcaatt ggagtattat cttttacaga 120
 ctttaattgga catctgttga gtatgtaa ac agcagtgtag actgcttcag cccagaatgt 180
 gttaagtagt cctttttcct tgagcatcga tctagccatt tccataacta tgcgattctt 240
 tctctcggat aatccatttt gttgagaaga atatgcgact gtaagttatc gctcaatgcc 300
 ttcatcctca caaaatcttt caaacttgcg agaggtgtac tctttgtcgc gatcacttct 360
 tagtactttt a 371

<210> 18133
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18133

cttatgcctg gatttgatcc tgaaattatt caagtggctc agatggctcct tataaatccc 60
 cggaatattg actatcatatc tggagttttt gcaaccaagg taacaacatc ttgtaatttc 120
 ttgatataat tttaattggc tactatgaca tgctacacag tcctcatggt tgttgatatag 180
 atcacgcctg caagggatgg aaaacctgtc ttgattgaac ttattgatgc gaaaaccaag 240
 gagccgaaag acacgctgga ggtaacttaa tctttttcag aaagctttta gggttatatc 300
 tctttgntat tatcaattgg aaacatttct cccatgagag aanggagaaa attattatgt 360
 gtcggtagaa cttagaatat ctatacnaag tatattgtat tatatcttag aatgtttata 420
 ctatcttaat g 431

<210> 18134

<211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18134

tttgctcacc tagatctgag tggaaattct cttcttggag aaatccccctc tgaagtatgg 60
 aagcttacag ccttaacgala tctagatccla agttataatg tggcctattca tggagagatc 120
 ccttatcact ttaaaaaatct ctcacaactg caatatcttt gtcttagagg acttaatctt 180
 tccggaccaa taccttttccg ggttggaat cttcctatct tgcatactct tagacttgaa 240
 ggcaatnttg atcttaaaat taacgatgca aagtggctat cttctctctc tttnttaaca 300
 actcttgacc tgacatcatt gcataatctt ggctcctctc gttactggca acaaatgatc 360
 ggtgagctta taacacactt gagagagtgg 390

<210> 18135
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 18135

cacatacatg cgccaacgaa ccaaatagca cacaaaaaga gtacaaggcg ggctaaacgg 60
 gacttacagg aaacgcatta tagaccatgt gatgctcaat atcaagcaag ctcccagtct 120
 ccagacacga aagtctgtga actggaaagc tagttttcaa aaactgttcc aatcgatgcg 180
 catcgatgtt gtatctatag cctccgtctc cgctaaaacc aatcagaacc acgttcactt 240
 ccagcggaac ttgaaacgga acctacacga accacagaca catgcattca cacatcaatt 300

<210> 18136
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18136

agcttcttat ccaaggcaat tcttggtggt gaagctcctt cttccttggc ttattcccta 60
 gtggatggtg cctcctctct ccttttctcc tttgccttcc gctgcatctc catggtgtaa 120
 aatcaccatt gaagaacctc attgaagctc aaagatccag cctccataga agctccacaa 180

gcaagcttcc atcacaccct ttgtgcatgt ccttcatgtt ttacatgcct catgacacct 240
 aaacacactt agtagagaat cttagaatttg atcttggatt agtgggctga accatagctg 300
 anattcacta atcataatta gtgaaatgtt ggctccacaa attcaagttc aaattcaagt 360
 gaaatttgaa tagaaaatca aaattccctc caattt 396

<210> 18137
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 18137

agctccacgc atgtaagtac aatctcatca ggtgcaagac tatcacagat gtcttgtctt 60
 gtaataaata aatcagctag aactgaagct gcatattctt gggtttcctc atttgatgaa 120
 ttgaggactt gaactagaga tctcaagcct ttattagctg cagaaccctt ttcaaggaga 180
 tcattctgcg aagccatagt aagaacatga cctaaaactc ggattatgtg ggtttttgag 240
 cttggagaat gccctatgag caatgctaata agctgattaa ttgtggcaga atcagctact 300
 cggacaagct ttgtgagtgc cattgcagaa gcttcctgtc ctcttgggtcc accactctta 360
 agaagccaca aaaatgctgg gatggctcca gcac 394

<210> 18138
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 18138

ttactttctgg tgggacatct tgacttgctt tccaatctga cattcaccac agattctgcc 60
 ttcttctatt ttcagattgg gaatgcctct aacagcacct ttgtcaatga ttttcttcat 120
 gcctcttaag tgcagatgtc caaatctttg atgccatatt ctgacttcat cttctctgga 180
 gaatagacat gtggaggagt aactggtttc ttgaggtgtc cataggtaac agttgtcctt 240
 tgatctactg cccttcatca gaacttcact cttctcattt gtcaccaagc attctgactt 300
 tgtgaagttt acattgaatc cttcatcaca cagctgactg atgctgatca agtttgcagt 360
 cagtccttcc accagcagta ctt 383

<210> 18139

<211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18139

tatgttgcaa acattttaaata tatacctcct cagctgtcta accaacaaca acagaataat 60
 tatgaccttt caagcaacag atacaatcca ggttgagga aicacacaaa ccgagatgy 120
 acaagttctc cacaacaaca acaacctgtc cctccttttc cagaatgttg ctggtccaag 180
 caagccatat gttcctcctc caatgcagca acaacagcag cagtcacaac aaagacaaca 240
 aggaactgag gtcctcctc aaccttcctt agaagagtta gtgaggcana tgaccatcca 300
 gaatatgcaa tntcagcaag agacaagagc ctncattcag agtctgac 348

<210> 18140
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18140

agtttggttt gtttaatccg cacgaangac acgtgctcat gcaacaattg gtaaccgatg 60
 ctataccaga catatttcca aacaaagtca ggttcaogat aactcacctg cgctcttgct 120
 tccatgctat atgatacaca gtgattgatc caataatatt cgatgagtcg gaaaatgatg 180
 ccgcaattat actgtgccag caggagatgt atcatcccc tggtatcgtt gacatcatga 240
 ttcacttgaa tgagcatctg gtctgagaaa tcaaagtgtg tggctctgat tatctacggt 300
 ggaagtaccc ggctgaacga tacatgaaga tctcaa 336

<210> 18141
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 18141

tatattattg gcttgaatca gacatccgaa tcaatagtta tggctgttta tttatgccat 60
 gtgcttccat gttcaattgt gaacatctcg atatattatg cgctgaatc gggcatctga 120
 gtgaaaagtt atgtcatatg agttagccga gagcttcgct ggtcgatttc aagcgtctcg 180

acatattatt ggctgaatc ggacattcga ggcaaaagt atggcgggtt aaactttcca 240
 tgcgcttcca tgggttaattt tgagcatctc gatattat gcacctgaat cggacatctg 300
 agagaaaagt tatgccatat gag 323

<210> 18142
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18142

tagtttgtgt ctaagnngca atctgctatt ccgatgatag tgaccacgcc tgagaaaagg 60
 gataccatta cagcgaagag cagggacata tcattgacca tgggtggtaaa gctcttaatt 120
 attgatgaag tccatctact caatgatgat agaggctctg tgatagaggc tctagtttcc 180
 atgaccctac ggcaggtaac gcatatgtct tatttctct gtgtttttac atgtacaaat 240
 ttagttagga gattcgctta aatttatat attctctttt ggatatatga ataatacagac 300
 attggcttat gacagctaac ctgatatcta tcttacttgt tccacatata aagcgagctt 360
 tcttattgat cgattttgcg ttggcactt 389

<210> 18143
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18143

agctttgtta acaagaattt catcaacgag tcaagacatg aaaaaagcct gacgagtaaa 60
 tctttgttta gaagtacaaa tgtgggatga gtttaccagt gttagctatg ttatgactct 120
 aaataattaa gttttgtag tttattgtac ttttttggtt catttattgt aataaaaaat 180
 ctaaattact ttaaattaga tcggtttgaa ttaaataata actaattaga taataaaata 240
 taaaatccaa tcaataacat aagacttgaa taatntttat tgtctaataa cgataataag 300
 atttcaactt aagatttatt taaattgctc actatatt 338

<210> 18144
 <211> 343
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18144

agttttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
tcttctatatt tcagattggg aatgcctcta acagcacttt cgtcaaagat tttcttcatg 120
cctcttaagt gcagatgtcc aaaccttga tgccatatto tgaactcatt tcttttggag 180
gatagacatg tagaggagta gctgggttct tgggggtgtcc atatgtaaca attgtccttt 240
gatctgctgc ccttcattag aacttcactc ttcttatttg tcaccaaaca ttctgactnn 300
tgtgaagtta cattgaatcc ttcattcacac agctgactga tgc 343

<210> 18145

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18145

tgtttcaatt canatgacaa ttacctttac tttatatcnt gatgagtccc gtaatataac 60
gagacgctcg aaattgaatg ttgaagctct gagccaattc agacgacaat aactttttac 120
tgggatgtct gattgagtcc cataacatat cgagacgtc gaaattgaat gttgaacctc 180
tgagccaatt caaacgacaa taaagtttta ctccgatatc tgattgagtc ccgtaatata 240
acgagacgct cgaaattgaa tgttgaacct ctgagcaaat tcaaaagaca ataactcnt 300
actcgatgt ttgattgagt cctgtcatat atcgagacgc tcgaaattga tgttgaaact 360
ctgcccanaa caaacgacaa tagactttta ctccgatgtc tgattgagtc ccgtaca 417

<210> 18146

<211> 388

<212> DNA

<213> Glycine max

<400> 18146

agcttgcttc ctatggaagc tectaataac tcccacactt tttggggtgg gccattcttg 60
gatggccttg attttctcag ggttcacttg gacccattt ctaccaacta caaacctaa 120
gaaaactata ttatctacac aaaaggtaca cttctctata ttgcataga ggggtgtttt 180

cctaaggact gaaagaactt gtctgagatg tcctaagtga aaatctaggc tcctactata 240
 cactaaaata tcatcaaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300
 atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaaggca tcactagcca 360
 ttcatacaaa ccaaacttgg tcttgaaa 388

<210> 18147
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18147

gcttatctca cactntctat gttaatatta attcatttgt gtctattcct cactctcaga 60
 cccccctta ttgtgtgtca ttatggcatg gccaaactgc cactgtcttt tcattttccc 120
 cccttcttgt ttgtttatgt tacttttcag attgtctttt ctgttaatca taattttagg 180
 agtgtcagat gttactcttg ttgattgga ttttatagtt ttttttaatc attcattcag 240
 ttaacgaaga aaaataaatt attttagatt aatttatatg cttaaatata tgtttttatac 300
 ttttgtttta cattcttatt aatttatgaa taaattaata aatttggatt tgtatctgat 360
 aatatttttt atttataatt agttgaaatn tanaccaaca ttattatatt atgataaaat 420
 aaatataaag tctctgattt aat 443

<210> 18148
 <211> 398
 <212> DNA
 <213> Glycine max
 <400> 18148

agtttactct gcaaacatth ataatagacc tcctcagtag caaacccaac aacaacagaa 60
 taattatgac ctttcaagca acagatacaa tccaggttgg agaaatcatc caaatatgag 120
 atggacaagt cctccacaac aacaacagcc tgtccctcct ttccagaatg ttgctagtcc 180
 aagcaagcca tatgttcctc ctccaataca gcagcagtca caacaaagac aaaaagcaac 240
 tgaggctcct cctcaacctt ccttagaaga gttagtgcgg caaatgacca tccagaatat 300
 gcaatttttag caagagacaa aagcctccat ttagagtctg acaaatcaga tggggcagat 360
 ggctgctcag ttaaaccaag cacaatccca aaattctg 398

<210> 18149
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 18149

tgtagggtta aagtcicatt attatcacgt gctcatgcaa caattgttat tegtggctat 60
 acgagacatt ttgccaaca aagtcagggt agcgataact cacctgtgct ttttcttcca 120
 tgctatatgt agcaaagtca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180
 aattatactg tgcgagttgg agatgtatct tcccccgct ttctttgaca tcatgattca 240
 cttgattgtg catttggtca gagaaattaa atgctgtggt cctgtttatc tacggtggat 300
 gtacccgggt gagcgataca tgaagatctt aaaagggtat acaaagaatc tatatcgccc 360
 agaagcatct attgttga 378

<210> 18150
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 18150

agctttatct aaattgagag ttgtcaagca atcaatttta aaataaagac atttaatcct 60
 tatatcttta aaaacattta actttatctt cttatcttta aatagaaaca tttaatcggt 120
 tagctttgta aaattcacia ttctaacctt tttatcaa attaaaaaag ttgattaata 180
 agaaattaac ttttaagtgt tcaaaattat attatttatt taatctacat catagttaat 240
 attaatatct taaatgttac ctttcagtt tcacataaag atcaaattca ccaattttac 300
 atgtgagact aaatgtcttt attttaaaat aaaaaaaaaa ttaaaatgat atatttcaaa 360
 agaaaactaa atatttttat 380

<210> 18151
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18151

agtttnatta tatcgagatg ctcgaaatta aacatcgga gctctcgaga aattcaattg 60
 gtcataattt atcacacgga tgtccgattc ggggtgcataa tatgtcgaga cgctcgaaat 120
 tgaacaacgg aggctctcga gaaattcaaa tggctataac ctttcacaca gatgttcgat 180
 tcaggagcat cacatataga gacgtacgaa caacggatgc actcgagaaa ttcaaattgg 240
 cataactttt cacaccgagt tccgattcat gcttataata tattgatacg ttttgaaata 300
 aacatcgga gctcagcaga aattcaaattg gtcataactc ttcacacgga tgtccgatta 360
 tggagaatca catat 375

<210> 18152
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18152

gcttcatgag agagtcaaag atcaaattga gagggaaaaat tttagctatg ctaaataatc 60
 caacaaaggg agaaagaacg ttgtcttcga acccggaat tgggtttggg tgcacatgac 120
 aaaaganagg tttccggaac aaaggaaatc aaagcttcaa ccaaggggag atggaccatt 180
 tcaagtgctt gaaagaatca atgacaatgc ttacaaagtt gagctgcccg gtgagtataa 240
 tgtagttcc accttcaatg tctctgattt atctcttntt gatgcagatg gagaatccga 300
 tttgaggaca aatccttctc aagagggaga gaatgatgag gacatgacca agagcaaggg 360
 caaggatcca cttgaaggac ttggaggacc tattgatgan gacatga 407

<210> 18153
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18153

agttttgctt ttctaattta gnagatccat gaaggtagcc taatgtctga agtttatggg 60
 attaatgatg tcattgacca atccctattt tatgacttaa caaaattgcc tagtgaagg 120
 gtaccttttg agggtagcact gattgatgaa tggaaatttg atttctctgt gcatgatgcc 180
 cgccggttgg tttgcaccaa ccaagcggat atgaccggaa gacttctttc cgtttcattg 240

gcttttgaga gccgcacatt ccattacatt attgctcgca tcttactccc tagatcttca 300
aaccttgctt aagtttctga agaagatctc attgtcatgt gggcctttca taaagggtta 360
caaattgatt gtgcacacct tgtagatat cgcattg 396

<210> 18154
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18154

tttgtggcta actccgacta ctgaaattga ccctttccaa caactgggtt agaggcgcca 60
caatcttagc ataccctnta ataaatcgtg tataaaagcc taccaacccg aggaagcttc 120
tcaatgcttt tactgattga ggtagaggcc actcctgaat agcgtataac ttttctggca 180
ctgttcaac tccgttgccg gagacgacat gccccaggta ctccagttgg gactgggcaa 240
aagtgcattt ggtacgtttc aaagagaact tccctganag caagagtttg aacgcgctnt 300
cgaggcgacc canatgatcc gccatttggt tgctatatac cagcacatca ccgaagatga 360
cgatgatgaa cctgcgcaga aagggttgaa agagctgatt catagttgct ttgaaggtag 420
atgggtcggt acac 434

<210> 18155
<211> 361
<212> DNA
<213> Glycine max
<400> 18155

agcttttgga gtttggggaa gaatgcctta ctaaaatata caatgaggtg ggaattttgc 60
atcaaaatag ctcccatggt tgtgccagaa gcatcagatt ccaagacaaa tgggatgggtg 120
aaatctgata tcgctaagac aaatgggaat tttgcatcaa aatagctccc atggttggtgc 180
ctccgccatt agtgacttga gtttgtcaaa ggtgacctga gaggtaggat tccaaaggaa 240
ctgatcctct cgcaagagca ctatcaatgg tgcggctacg gtggcgtaac ctcgaacaaa 300
cttctggtta aaacctgtaa ggcccaaaaa tccttgcaac tatgatggag atgatgggga 360
t 361

<210> 18156
 <211> 429
 <212> DNA
 <213> Glycine max.

<223> unsure at all n locations
 <400> 18156

taacagatgt gttacatcgc tntgcaggca catggtacat ttcacaaaaa gaccacccat 60
 agaatgagtt ataatatattt ttttcttccc tctgcagca ttataaattg attctaactt 120
 tgcagctaac cgatccattg tttccttcaa cctaaatgaa ataaacagag caattgtaaa 180
 aaaaaatata tttcatttgg tttaatactt tttagagaac ttatccttag gattgtggga 240
 aatcatacca ccaagcaata gccaaaagat aacttgaga gacatcaatc agattaaatt 300
 catttgaca attacatcaa tcagctgata gcttcctcag aaaacttata atttcataat 360
 aataacaaca aactatgaaa atactctgca taatntttac aaaatcaatt cattattaaa 420
 aaaaatata 429

<210> 18157
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18157

tncctctaaa tntaaaatat gcaacaaaca ttgctattaa ggtacaaatg gattattcat 60
 ggctatcgca tcaaagattt ggccacttca acacacatgc cttgaagttg ttacatgaga 120
 agaacatgat gagagatctt caaagcataa aggagaacat tgaagtgtgt gaaggatgtc 180
 tccttagtaa gcaacaccga tttcctttct caacaagcgg agcatggaga gcgaaagatc 240
 tattggagct gatacatagc gacgtttgtg gaccaatgag gacgccatca catgagaaca 300
 acagatactt catactcttt atcgatgact tctcttgaat gacatgggta tattttctaa 360
 aagaaaaata agaagtcttt ggagtattca aaatttcagg gccttgctga aatcaa 416

<210> 18158
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 18158

atggcctcag caaattcctt atttctataa agaaattcta tctacagacc tccattcttt 60
aatggagagg gttaccacta ctggaaaacc cgaatgcaaa tttttatcga ggcaatagat 120
ctaaatatct gggaagccat aaaaataagg ccttatatac ccaccacagt agaaagagtt 180
tcaatagatg gtagttcatc aagtgaagc ataaccatag aaaaacctag agatattatg 240
tctgaagagg atagaanacg agtacaatac aacctanaag ccaaaaacat aataacatct 300
gccctaggaa tggatgaata tttcagagtt tcaaattgta agagtgctaa ggaaatgtgg 360
gacactcttc gattaacaca tgaaggaact acagatgtta aaagatctag gataaatgca 420
ctaactcatg agtat 435

<210> 18159

<211> 354

<212> DNA

<213> Glycine max

<400> 18159

tatgtttgac caggaattat ttggatgggt tggatgttga gttcaagttg ttcttggtgt 60
ggagatgatg ggacagatgg tgaaccagaa gctgcagttt cttttgatga ggtagccatg 120
gaaaagcaca tcgtttggaa tgatttcgta aatctcagaa aactattggg aaatgctgat 180
gaaaacacga atgtcaagca gatatatatt tgaatgagga atgtagaggg ccgtgtgaag 240
caacggtcga attttccttg gttcagtagt gaacgtgcta ttaatgctaa gtgattcggt 300
tgggcacggt catattgctc gaattgctat aattcctcta tcacacaaat gcc 354

<210> 18160

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18160

tgattagctg ccgtagcagc aacaatatat tctgcttcac atgttgacaa agcatctaca 60
ctttgcttct ttgagcacca agagattgggt gttgttcaaa atttgaaaac ataccagta 120
gtgcttttcc tatcatcctt atcaccacac caatctgaat cactataacc aataacttct 180
ccttctatat tcttctgact gtaaggatat aaaatgccaa gatccaatgt tcctttcaca 240

taccttagaa tcctctttgc tgctaggaag tgagggtgtct ttggtttctc cataaacctg 300
 cttatcaacc caacacaata agcaatgtca agcctgggtgt tacatatgta cctcagtgag 360
 cctacaactt gcttgtacaa ggtangatca acttctttct catcncatc ta 412

<210> 18161
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 18161

agtttctatt ctcaatttcg agtgtctcga tatattacgg gactcaatcg gacatccgag 60
 taaaaactta ttgtcgtttg aatttgctta gagcatatat tctcaatttc gagtgtctcg 120
 atgtattacg tgactcaatc gaacatccga gtaaaatggt attgcagttt gcatttgcaa 180
 caagcttctg atttcaattt ggatcgtctc gatctatgat gggactcaat cggacatccg 240
 agttaaagt tattgcggtt tgcatttgct acgagcttcc gctttcaact acgagcgtct 300
 tgatatatta ctggactcaa tcgaacatca gaataaaaag ttattgttgt tagaattttt 360
 ttcagagcct ctgttttcca 380

<210> 18162
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18162

tcaaccaaag ggagatggac catttcaagt gcttggttaga atcaataaca atgcttacia 60
 agttgagctg cccggtgagt ataattgttag ttccaccttc aatgtctctg atttatctct 120
 ttttgatgca gatggagaat tcgatttgag gacaaatcct tctcaagagg gagagaatga 180
 tgaggacatg ttcaagagca agggcaagga tccacttgaa ggacttggag gacctatgac 240
 aagggtctaga gcaaggaaag ccaaggaagc tctccaacaa gtgctgtcca tactatttga 300
 atacaagccc aagtttcaag gagaanagtc caaggttgtg agttgtatca tggcccanat 360
 ggaggaggac taaatgacac cactttgtct 390

<210> 18163

<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18163

agcttctaca ttcaattttg agcgtctcgt aatattacgg gactcaatca gacatccgag 60
caagaattta ttttcgttly gattggctca gagattcaac attcaatttc gagcgtctcc 120
atatattacg ggactcattc agacatccga gtaaaaagtt attgtagttt gaattagctt 180
agagcttcaa caatcaattt cgagcgtctc gttatatcac gagactcaat cagacatccg 240
agtaaaaagt tattgttggt tgaattggct cagagcttcc acattcaatt ttgagcgtct 300
caatatatta cgggcctcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tcagagcttc ancattcaat ttcgagcgtc tcga 394

<210> 18164
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18164

ntgagcaaat tcaggcgaca atatcttttt actcgcattt ctgattgttt cccgacatat 60
aacgagacgc tcgaaattga atgtcgaagc tctgagccaa ttcaggcgac aatatctttt 120
tactcggatg tctgattgag gcccgtaata tatcgagacg ctcgaaattg aatgttgaag 180
ctctgagcca attcaaacga caataacttt ttactcggat gtctgattga atcctgtcgt 240
atatcgagac gctcgaaatt gaatgttgaa cctctgagcg aattcaaacg acaataactt 300
tgtactcaga tgtctgatat gggctcgtaa tatatcgaga cgctcgaaat tgaatgttga 360
agctctgagc gaattcaaac gacgataact tgttactcgg atgtctgatt gagt 414

<210> 18165
<211> 301
<212> DNA
<213> Glycine max

<400> 18165

ggcttcttct aacacgctcc acactttgta ggggtgggcca ttctcggatg gacttgaatt 60

ccatcataggc cacctgagcc ccatttttac cacactctaa accctgagaa aactatatta 120
tctactcaaa aggcacattt gtctatatta gcatagacgg tatttatgct aaggactgaa 180
agaactgcc tgagatgtac taagtgatca tctaggctac tactatacac tcgaacatga 240
tgaaag aa aaactacata tctacctatg aaagacotta tgacatgacg catagccctc 300
a 301

<210> 18166
<211> 299
<212> DNA
<213>

Sequence at position 18166

ttgggaac ttt ttt act aaa aa tcca 60
tggcatg gactgtgccc gcc aca gct tttggg agaatgcat 120
g aaa gccgagacct tgatcga ctctgctct aaata tca tca tct 180
gcc gaagtcta cttgagaatg gacagc 240
canga agg cttag gccagc tgcctacct tgggtaca 299

<210> 57
<211> 36
<212> DNA
<213> Glycine max

<400> 18167

tttagcttaa gctcctacaa ctgcacaagg ctcttaatgt ttgaagagta tccttgagga 60
accttcaccc gactaagaca ctgacaaaaa cttatcttct cctttttgga caaggatatg 120
caagctaggg gcaagtaaata tttcttccca ttaaaccottg gatgcaactg tgatcgtatg 180
cccatatcaa ctagatcttg acaggtattg aagccatgct tcatcttgcc ttgaatgtta 240
aggagagtac caatcacact atcacaaaaca tttgtctcca catgcataac atcaatacaa 300
tgtctaacat cgagatcaga tcagttcgaa agatcaaaga taatggacct attcttccat 360
atgcaactc 369

<210> 18168
<211> 406

<212> DNA
<213> Glycine max

<400> 18168

agcttgctaa cttatggaag ctccataat ctccacact ttttaggggtg ggccattctt 60
ggatggcctt gattttctca gagtcactt gaacccatt tttaccaact ataaacccta 120
agaaaactat attactaca caaaaggtac attctctat atttgcatag aggytattt 180
tctaaggac tgaagaact tgctgagat gtctaagt atcatctagg ctctactat 240
aactaaaa atcattaaaa taaaaaacta caaatctacc tatgaaatcc cttagacat 300
gatgcataag cctcaciaag gtgcttggtg cattagttag cccaaaaggc atcactagca 360
attcatacaa accaaacttg gtcttgaaag cagttatcca ttcac 406

<210> 18169
<211> 422
<212> DNA
<213> Glycine max

<400> 18169

gaatggaggc tctggctctt gtgtgaaact gcatgttttg catagtcttt tgccttatca 60
agttcttcaa gggaagggtc cggaggagcc tcaactattt gttgtttctg gggctgttgc 120
tgcttctgtt gttgttggtg tagctggatt ggtggaggaa catctggtct gcttgggcca 180
gcagcattat gaaaataagg ctattgttgt tgctgctgtt gtgaaggact caaccatcta 240
aggttgggat gattcctcca ccggggattg tacttgctgt tggagaggtc ataattgttc 300
tgctgtggtt gattctgctg ctgaggttga ggaggtctat tgtagatgtt tgcagcataa 360
gctttaggct gttcaattgc tccagattgc tgcacaaaag ggcaaaggtc tgtatggtgg 420
tc 422

<210> 18170
<211> 267
<212> DNA
<213> Glycine max

<400> 18170

acgtgcacat gcaacaattg atagtccggg ctatacgaga catcttgcca aacaaagtca 60
agttcgccat aactcacctg tgctttttct tccatgctat atgtaacaaa ggcattgac 120

ctgtcaagct tgacgagttg gaaaaagacg ccgcgattat attgtgccag acggagatgt 180
 atttcccccc cgctttctat gacatcatga ttcacttgat tgtgcatctg gtcagagaaa 240
 tcaaattgatg ctgcctgttc atctatt 267

<210> 18171
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 18171

agcttgccct gtccttgat atatttgagg gactcatggt cactatgaat gacaaattcc 60
 ttgggataaa ggtagtgttg ccatgttttc aaagcccgt aagggcata caactcctta 120
 tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180
 tggccttctt gcatcaacac agcccgaat ccaacatttg aagcatcaca ctgaatttca 240
 aaatattttt gaaagtttgg caacgcaagt atggggcatt agttagcttt tgcttaagaa 300
 cattgaaagc ttcttcttgt ttctctcccc atttgaaacc agcatttttc ttgagcactt 360
 cattgagagg tgctgccaat gtgctaaaat ccttcacaaa tcgtctat 408

<210> 18172
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18172

attcaaacga tgataactnn ttactcggat gtctgatnga gttccgcaat atatcgagac 60
 gctcgaaatt gaatgttgaa gctctgacca aattcaaacy atgataactt ttactcggaa 120
 tgtctgattg agtcccgtaa tatatcgaga cgctcgaaat tgaatgttga agctctcagc 180
 aaattcaaac gataataaat ttttactcgg atgtctgatt aagtcccgt aacatcgag 240
 acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgacaataat ttttttagtc 300
 agatgtctga ttgagaccog taatatatcg agacgatcga aattgaattc tgaagctctg 360
 agctaattca aacgacaata acgttntgct cggatgtctg attgagtcct gtaattct 417

<210> 18173

<211> 397
 <212> DNA
 <213> Glycine max

<400> 18173

tcaagcttgt tgggtgtcct cattactaga agaattatga gtagtcagca attgaccttg 60
 ctaaaattcc agtctctcat ggtcgtctca agcatattga aattaagttt catctcttaa 120
 gagattagat aaccaaagga aaaatcaagt tggttcactc taagacagaa aatcagttgg 180
 cagatatctt cacaaaagcc ttgaagatag acagatttaa ggagctgaga atcatgatga 240
 atattctaga gcttttaggtt attgtctgtt gttggaatat tgcattttga atcatggggg 300
 tgttagaaat aattcataaa tgtaattacg ggtaaatgaa attatggatt ggtaagtaca 360
 tataaataag tactcttata ttgtaagaat agagtgt 397

<210> 18174
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 18174

gcaacatcag accacttcca ggggtgctgga actacttttt tggatttggt ggggcctatg 60
 caagttgaaa gccttggagg aaagaggtat gcctatgttg ttgtggatga tttctccaga 120
 tttacctgag taaactttat cagagagaaa tcagaaacct ttgaagtatt caaagagttg 180
 agtctaagac ttcaaagaga gaaagactgt gtcacatga gaatcaggag tgaccatggc 240
 agagaatttg aaaacagcag gttcactgaa ttctgcacat ctgaaggcat cactcatgag 300
 ttctctgcag ccattacacc tcaacagaat gggatagttg agaggaaaaa caggaccttg 360
 caagaggctg ctcggtcat gttcatgcc aaagaacttc cctataatct ctgggctgaa 420
 gccat 425

<210> 18175
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18175

tactcaagct tgaccctgct ctgctgcgga gtgggagaat ggatatgtat atcttcatgt 60

gttactgttc ctttcccgcg ctgaagattc tgctgaagaa ttacttgggg tgtgaagagt 120
 gtgagcttga ggagtcatt ttgaagcggc tggaggaggt tgctgacgtg gcccgatga 180
 ctccggcgga tataagcgag gttttgatca agaacagacg caagagagag aatgcggtgg 240
 aggagtgtt ggagactntg aagctgagag cggagatgaa tgaaaaaat ggagttctga 300
 gyytgaataa tggggttyaa gaggaggaag agcaagagaa gagggcttta yacagtgaga 360
 gtcctaagca tgagtcagag attgaggaca attgcaagga ggaggaggaa gaagaagaga 420
 agacaagtag tatatagtga cgaatgat 448

<210> 18176
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18176

agcttgctta atttggattt cttngagcga gaagttgacc ttggaagtac ttgtcaatgc 60
 gactgtacca tgctctcagt gcttgattta gtccataaaa agccttcttt agcttgagaa 120
 ctttgtcttc ttctaatttc acctttaatc ccaacggttg ttcgatgtac acttcttcca 180
 cgaggactcc attcacgaag gtagacttca cgtccatttg atgaattctc cactagtgtt 240
 gagttgcaag agagattatt actacgatgg tctccaggcg agcgaccaga gcaaacacct 300
 caacataatt gataattgtg aaatttgagt taatttgata gtcaattatg gctaagaatg 360
 attggaattt ctttacttta tcgtttattt aataaaataa ta 402

<210> 18177
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18177

tactcacgct tgtaagagct tggtcacttc cttntcacc acatctagta tgacgngtt 60
 tagtcgtttc tgtggctacc tcactggctt agctgcatcc tctaaaagta tcctatgcat 120
 gcaggtagat gggctaatac caggaatgtc tgctaaagtc catccaatgg ctttcttgtg 180
 cttcttgagc accggcaaca acttctcttc ttgctcaaca tcaagggaag cagagatgat 240

cactggaaat ttgatgcaat cctaccccg c aagggcattg gatagaagac tccaagtaga 300
 ttgggccaga gatccaaggg aaggccctag ggttctcatg agccttaagg tagattntga 360
 gcccatgggc taagtatgag cccgcttatt tttgtaatta ttagaatagg ttttttcctt 420
 cgtttaggcc ttgtatt 437

<210> 18178
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 18178

tcaagtgttt ttaatgcatg tgaaattaca aaactacce aatacaaaa aactagtcaa 60
 agtggccctta aatacaaggg ctaaaaaatc ctacattact aaggatcct tcctacacta 120
 tggagcacta aatacaagac cctaaaataa tgaaattcta atctaataatg tacaagata 180
 agtgggctca tacttagccc atgggccc aaactaccct aaggctcatg agaaccctat 240
 ggcttctct tgcatctctg gcacaatctt cttggagtct tctatccaat gcccttgggg 300
 ggataggatt gcactactag gggaaatctc aaatcaaaaa gtgtcatgct tactatctat 360
 caaagaaatc atatggtatg gcatacaaat ct 392

<210> 18179
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18179

agcttgatg gttaaagtct cagattgtc atgtgctcat gcaacaattg ttagccatgg 60
 ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcgctg tgttttttct 120
 tccatgctat atgtagcaaa gtcattgac cagtcattgt tgatgagttg gaaaatgagg 180
 cggcaattat attgtgcca ttggagatgt attttcccc tgctttcttt gacataatga 240
 ttacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggctctgtt tatctacggt 300
 ggatgtaccc ggttgagcga tacatgaaga tcttaaaagg gtatatcgtc cagaagcatc 360
 tattgttgag aggtacattg caga 384

<210> 18180
 <211> 378
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18180

ptgcataccc caaggatcct ttaagaaatt acttctgtta tagagccatg acgggtgggt 60
 catgyggccac ttggaatag acaagaccct cgtcttactc aaagaaaagt ttatttggcc 120
 ccatatgaag aaagatgtcc ataagcattg cactaggtgt gtggcttgtt tacaagccaa 180
 gtctaggggtg atgcctcatg ggctatacac acccttacct atcccatctg caccttgggt 240
 agacattagt atggactttg tccttgggct tcctagaacc caaagagggt tagactctat 300
 ctttctgggtg gtggataggt ttagcaagat ggcacacttt atatccatgc cacagggtgga 360
 tgatgcttcc cacatctc 378

<210> 18181
 <211> 395
 <212> DNA
 <213> Glycine max

 <400> 18181

tcaaccaagt ggagatgggt catttcaagt gcttgaatta ttcaatgaca atgcttacia 60
 agttgagctg cccggtgagt ataatgttag ttccaccttc aatgtctctg atttatctct 120
 ttttgatgca gatggagaat cagatttgag gacaaatcct tctcaagagg gagagaatga 180
 tgaggacatg accaagagca agggcaagga tccagttgaa ggacttggag gacctatgac 240
 aagggaaga gcaaggaaag ccaaggaagc tcttcaaca gtgctggcca tactatttga 300
 atacaagccc aagtttcaag gacaaaagtc caaggttgtg agttgtatca tggcccaaat 360
 ggaggaggac taaatgacac cactttgttt caatt 395

<210> 18182
 <211> 346
 <212> DNA
 <213> Glycine max

 <400> 18182

cttctcgata tatacgtacc agattcggac atccgagagt tatgacctga ataatcgaat 60

tacaccagag cttccattgc tcaatttggga gagactagat gagttatgta cgccaatctg 120
 acatccgcgt gaaaagacag gaccattgcy ctttcacgag agcttgcgat gttcaagggc 180
 gagcgtctag atgagtcattg cacgcgactc gggcattcgt gggaaaagcc atgaccattc 240
 aactatatcg acagctgccg ttgtgcaaac gcgagcatct cgatatatta tgttccccac 300
 ttcagaggtc cgaatgaaaa gcaatgacca ttctaaagat cgaagag 346

<210> 18183
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 18183

tgaagaatg cagacaatct ggggttgtct gtagagaatt actttgttgc tatgagatta 60
 ccttctctat gctcttccta tgtttataaa tgaatcaagc agcctcaaga tgtcaagaag 120
 taaatgtggt tgactgagaa ttacataaac aggttgggct tggttgcctt gtatgttggt 180
 ttgagcttcc tagttggggg cctaaccctc ttgaacacca aagggaactt gatcttggag 240
 ttgtggaact gcttgggtgct ctcccttttg caaagtttag ctgggatggt ggcagttttg 300
 atgatctgga tgcattggaga cctgactcta tgacgagatg ccatttcggt gtacatgtgt 360
 tcaacagcgc cgttttagagt agtatcgca tattccttgt acatgttgtg ataaccagtt 420
 cgg 423

<210> 18184
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18184

tcatgcttaa ctatgtatgg caaaacttca ttactgttgt tcaagacata caagtgaagt 60
 tgtaacaaat cttctacact cggagtgate acctgcagtc ctctagaact ataaccacc 120
 actctgtcat cataccgaga cttacgaagc ccaacagggt tagccttctc taagtattct 180
 gaacaaaatt caatggcttc ttctgcaatg tacctctcaa caataaatgc ttctagacga 240
 tatagattct ttctataccc ttttaagatc ttcattgata gctcaaccgg gtacatccac 300
 cgtagataaa caggaccaca acatttgatt tctctgacca ggtgcacaat caagtgaatc 360

atgatgtcaa agaaagcacg gggaaaatac atcttcaact ggcacagtat 410

<210> 18185

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18185

tcagctttat ggctgttgac ctaatccata cattttttaa tattatgctc tttttattct 60

cttttgatat actttgtgct ntaacgactt gaattcaata tgattttgtt tatcaattat 120

ttttggattt gtacattact tatacgaaat ttataagtt tcttttttta gttagtattt 180

cactagggtt taaaataatt aattaatcaa agacgtcttt aagcaagctn ttaaataatgc 240

tcgtgggcca agccagactt ttatgtaagc cgagccgagt ctttaaaaaa agcctatgat 300

aggtaatgag ccaagctcaa gccttacgta ttcaactcaa gctgagctca dgcttagtaa 360

agcttggttt ggcttgetca tttcac 386

<210> 18186

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18186

agcttgtgca ctcaatatcc tgatgagagt gttccatattg ttctcaagac tgaactaata 60

catttgctgc ccaagattca tggctttgca ggtgaagatc ctcataagca tcttaaggag 120

ttccatattg tttgttccac catgaagccc cctgatgtcc aagaagatca tatctttctt 180

aaaggttttt cctcattctc tggagggagt ggcaaaagat tggctctact accttgctcc 240

cagatccatt ttcagttggg atgaccttaa gaggggtgtc ttggagaaat tcttcctgc 300

atctatgacc actaccatca ganaagacat ttcatgcac angcaactta gtggagaaag 360

cttgtatgag tactgggaaa gattcaag 388

<210> 18187

<211> 381

<212> DNA

<213> Glycine max

<400> 18187

tctagcttat aatattttat tacgctcgaa attaaacaac ggaaactctc gcgaagttca 60
aatagtcgta actattcaca cggatgtgcg gttcggggcg ttaatatgtc cagaggctcg 120
aaattgagca acgggagctc ttgagaaact caactgggat aacttttcac acagatgcgc 180
cattgccrcc gatcacatat cttagacgctc acaatggaac aacgggaagct gcttgaaaag 240
aaaatggtca taacgtttca caccgatggc cgatcaaggc ataatatgtc ataattctca 300
tattccacaa catagatatc tataagaaat ggtctaattt tcaacggatg tcgattaagc 360
ttatatatat gatacgctcg a 381

<210> 18188

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18188

tctaaactnt gtacaagaat gaagctctga taccacttgt tagacttgtg gcttcagata 60
tcttaagaag ggggggttga attagatat tccaaacttt tctcctaatt aaaaatctat 120
cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaatt attaattcaa 180
atgaagcaac ttgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240
aaaatgcaaa ctacgtttta tactgggtcg gccacaccct tgtgcctacg tccagtcccc 300
aagcaaccgc cttgagagtt ccaactaact gtaaattcct tttacaagtt ctaaacacac 360
aaggacaacc ctccctttgt gttagagatt tttaacaag agactcacag ctcttatccc 420
tt 422

<210> 18189

<211> 358

<212> DNA

<213> Glycine max

<400> 18189

tagaacaatg gaagctgtcg agaaattcaa tgtgtctatc ttctttaacg gatgtagac 60
tcggacacat aatatatcga gacgctagaa attgaacgat tgaactctct cgagaaattc 120
aattggtcat aacgtttcac acggatgtcc gattcgggag cattatatat cgtgacgttc 180

gaaattgaac aatggaacct cttgagatat ttaaattggc ataactgttc acacgaatgt 240
 ccgattcacg gacttaatat atcgagacgt tcgaaattca agaacggaag ctttcgtgaa 300
 attcatatgg aaataacttt tcacatggat gatctagtca cgcggatcat atattgtg 358

<210> 18190
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18190

gacctataaa actcagctta ttggacaaag gcaaactcta ttgnnggata tgatggagaa 60
 gcagnacttc ttggacctga aatgctacaa cagattaacg aacaagtga gttgattcga 120
 gagaagataa aagcatctca ggataggcag aagagctatt atgatagaag gagaaagcca 180
 ctagattttc aggaaggaga acatgtgttt ttgaagggtt ctcccgtaac cagagtcgga 240
 agagctctca aggctaggaa gttgacaccc aagtatctag gcccgatca gattttgaag 300
 aagattgggc ttgtagctta tcatatcgcc ttacctccga gtttatcgaa tttgcatcct 360
 gtgtttcatg tctctcaact gaggcgggtac aaccagatc catcacatat acttacagt 420
 gacgccac 428

<210> 18191
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 18191

tatactccct ttogggtcac ttagccccga aaacattatg tattttgtgt tgtattgcaa 60
 atcaccaagt agtgcatttg gttgatggga gcagtaccca caacttcata cagaaacact 120
 tagtccacca attgggccta ccaacacaaa ccacaccttc totcaacgtc atgggtgggt 180
 acgggcatca cctggattgt cgccatgtct gtccagcact tgcagttcat attcaggaca 240
 ttgtcttcaa tattgacctt catgtctctg tctgtgtgg tactcacatc gtattaagt 300
 ttcaatgggt caaatctctt tggccgggtg taacggatta taacgactta tccatgaagt 360
 tctctcgcaa c 371

<210> 18192
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 18192

tataaaactc agcttttagtc taatttgaat tctcgaatat tatccgatgt tatccgarat 60
 ccaagtaaaa agatattggc atttgaattt cctatgagct tccgttttca atttgagca 120
 tctcgatata ttacaggact gaaccggaca tccgtgtata aagttattgg catttcaatt 180
 ttctcagagc ttccgatcta aattttgagc atctcgatat attacgggac tcaatcagac 240
 atccgagtca aaagttattg tccgttgaat ttgatacgag cttacgcatt caatatggag 300
 cgtctctcga taaattatga cactc 325

<210> 18193
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18193

agctttttgt ttctactatt ccaataattt cctagtggcc ttatggaatc taaaataagt 60
 cttactatga cattggtgca atggattttt atggatcatat aaaaaacata acaaagatca 120
 agaaaggaaa tccaaaaaac atgtagaaac tagcttgagc cgcctttggt caaagctgta 180
 gaaaatgcag aaactatggt gctcatccct tctggtggat tactagttag cctaaactag 240
 aaaagctggc ctcatatgat gtttccataa tatgtcttgt aattttggct ttgtttatct 300
 ttagttcttg ttgtgtttta tgaagaaata ttatgcatga ataacttcta ggatggatat 360
 tntatggatt gcaccaatgt taagcttttt gtttctacta ttc 403

<210> 18194
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 18194

actcagctta acaccgaaat ttagttaggc tacttgggtt ctgtttttta ggaagattta 60
 gttgcttgct tatgaatatg ttccataata aagccttgat tgcttcatat ttgtaagtt 120

tgaatatctg cgaaattaga ttgttagtat atgtctatta atttagtttt ggttcaagac 180
acaccgagta ctaatattgg tttaacattc atatggttgt ggtgtgtatg tatagatcca 240
ataaagaaaa cacaattgaa ttggcaaagg cggtaaaaa tcattgaagg tattgctcga 300
ggcattctct acctccacga ggattctcga ttacgaatta tacatagaga cctcaaagca 360
agtaacattc tcttggacga agagatgcac cctaagatac cagatttttg gatcycaaga 420
ttggtc 426

<210> 18195
<211> 406
<212> DNA
<213> Glycine max

<400> 18195
tcaagaââââ gatggcctta tcaaactcct tattcctttt ggaattctat caatagacct 60
ccaatcttta atggagaggg ttaccattac tggaaaaccc gaatgcaaâ ttttattgag 120
gcaatagacc taaatatttg ggaagccata gaaatagggc cttatatacc caccacagta 180
gaaagaatta caatagatgg cagttcatca agtgaaagta taactataga aaaacctaca 240
gatagatggc ctgaagagga tagaacacga gtacaatata atttaaaagc caaaacata 300
ataacatctg ccctgcgaat ggatgaatat ttcattggatt caaattgtaa gattgctaac 360
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<210> 18196
<211> 396
<212> DNA
<213> Glycine max

<400> 18196
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tacatttcat cctacatatc aaatattatc accttgggtt ttgcttgag gttactctcc 180
tccacttcct tagcatgaat cttttcctca agcttagtgt agaactggcc accaaaataa 240
cattttttta aaactgagtt tatccaaaag aaaccctcat gtaacacaaa aggcagaagc 300
aagtaataat tatttacctc ttttcttctc tcagctcgct catcacactt gaaactgaat 360

ccatattttg gaagtgcctc caccctgcga ggtttg

396

<210> 18197
<211> 393
<212> DNA
<213> Glycine max

<400> 18197

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ttttgattga gttctgtctg gagagaagag gaagttgcaa ctgttgaggc tccaagagat 120

gaggcttaat gcttatgaca cgatgttgta caagcggatt gtgaaggcct atcatgacat 180

gaagttggtg cgaaagaact tccaatcagg ccagcaagtc ttgctcttta attcatgact 240

caagctatctt ccaggctcct tgatgtcctt atgggctaga cctctcacta tctaagaggt 300

atagccctat ggagcagtgga aattgatgga tcctcagtta catcatctaa agagaacttg 360

ggtggtgaat ggtcacagat tgaaactgta tca 393

<210> 18198
<211> 392
<212> DNA
<213> Glycine max

<400> 18198

tgttttattg gatcttatat tcaagtggc ctctagtga gatggagttt tagtaagttt 60

ctctgatttt atggttatga gcttgcta atgccttctat tatccagtaa tggtgctgtt 120

ttacaatgca tgtggcagtt ggttgattac atggttttta tttttcagga acgtgcggct 180

ggtgcattgg ctaatttggc agctgatgac aagtgtagta cagagggttg actatcagga 240

ggtgtacatg ctctagtgat gcttgctcgt aactgcaa attgagggagt gcaagagcaa 300

gtagcattac tttttattat ttgggtacca tccagttcag ttgctaaaat ctttgaagct 360

gtttttattg gtagatgata cctgccaatt ga 392

<210> 18199
<211> 404
<212> DNA
<213> Glycine max

<400> 18199

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 tatctcgaga cactcgggaat tgaataccga agttatgagc aaattcaatc gacaataaat 120
 ttttactcgg atgtcggatt gagtcacgta atatatcgag acgctcgaaa ttgaataccg 180
 aagctctgag caaattcaaa cgacaataac ttttactcgg gatgtccgat tgagtcccg 240
 aatatacga gacgctcgaa atgaatacc gaagctctga gcaaatgaa acgacaaata 300
 atttttacac ggatgtcgga ttgagtcacg taatatgtcg agacgctcga aatagaatac 360
 cgaagctctg agcaaattca aacgacaata cctattgact cgga 404

<210> 18200
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 18200
 agctttgcct caaaacaaag tctttccaag acatccaagg ctgtggtaat cgattaccaa 60
 gcagtgtaat cgattaccag aagacaatat tgaaaaaaca actttttaaga agggttttga 120
 aatttgaatt taaaagttgt aatcgattac cattgatgtg taatcgatta ccaacaacga 180
 aactcttgaa attcaatttg aaaagtcata acccttcaaa atataactgt gtaatcaatt 240
 accagaaacc tataatcgat taccagtga gaattttaga aaaagctttt tgaaaagaca 300
 catctcttca aaccattttg aaaaggcacg aatgcccaat atatatgtgt gtctgacttc 360
 agaaggcaag agagagatat tctaagcgaa ct 392

<210> 18201
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 18201
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 atgcaatcct ccctaggaag ggaccactca ctagagccat gagcaagagg ctccaagagg 120
 attgggctag agctgctgaa gaagacccta tggttctcat gaacctcagg gtagatttct 180
 gagcccatgg gccaggctg ggtccaatta tctttgtaca tattagacta ggatgtcatt 240
 atatttggtc cttgtattta gggctccata atgtatgtag ggtaccctag aaatatacga 300

tttttcagcc cttgtatattt agggcaccta cactagtttt tatattaagc gtagctgtgt 360
aatttcacat gcactaagtg aatatttgat 390

<210> 18202
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18202

agctttgtcc aactcanacg acaataacgt ttttctcgga tgtctgattg agtcccgtaa 60
catatcgaga cgctcgacat tgaacgttga agctctgagc caatacaaac gaccataact 120
tttttctcag atgtctgatt gagtcccgtg acatatcgag acgctcgaaa ttgaatgttg 180
aatctctgag aaaattcaaa cgacattaaa tttttactcg aatgtctgat tgagccccgt 240
aacatatcga gacactcgaa attgaatgtt gaacctctgt gcaaattcaa acgacaataa 300
cttttttctc ggatgtctga ttgagtcccg taacatatcg agacgctcga aattgaacgt 360
tgaagctctg agccaatata aacgaccata actttntact cgga 404

<210> 18203
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18203

agcttgtgaa gctcctgttt tagctttacc cgattntact caaccatttg aagttgaatg 60
tgatgctagt ggagttggca ttggggctgt tttgatacaa aacaaaaggc ctatagctta 120
tttctcggag aaattgggag gagccagatt gaactattgc acctatgaca aagagttcta 180
tgccattgtg agagctcttg atcattggaa tcattatttg cgttctaate actttatatt 240
gcattcagat catgagtcac tgaagtatat caatgggcag caagaagttga gtccaaggca 300
tgctaaatgg gttgaatttc ttcaatcttt taatttctct tcaaaatata aggatggtaa 360
gagtaatgtg gtggctgatg cactctcaag gaggtatgc 399

<210> 18204
<211> 393

<212> DNA
<213> Glycine max

<400> 18204

agcttacttt attaagttct ctaaaagtga ctgaggaact tgggtgtctca ataaaaaaca 60
atgcttcttg gcagtcctat gagatgcacc acttccttga aaaataggtc aacaacatgg 120
caagcatcat catcttctt gcaaggtata aaatgcgccc ccttgaaaa cctgtaatcc 180
acaacaaaaa tggaatcctt gtcatttctt gtatgtggga atcctaaaac aaagcccata 240
gacaaatcta tccaaggaca atcaggaata ggcaaaggag aataaagtcc atgatgcttg 300
atggttagact tagagttctt acaacaatg aaattctcaa aatttttttt tacatcatgt 360
ttcatatgaa gccaaaagaa atgctcatgc agc 393

<210> 18205
<211> 393
<212> DNA
<213> Glycine max

<400> 18205

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gataggcttg cgcacattag acttgtcaaa taacagattt tatggggata ttgggttgaa 120
tttcccttcc atttgtgcca atttagtcgt tgccaatgtc tcaggaata aattgactgg 180
tgtgattgaa aactgctttg atcaatgtct caagttgcag tacttggatt tgagcaccaa 240
caatctgagt ggaagcatat ggatgaagtt ttcgaggtc aaagagtttt ctgttgcgga 300
gaaccatcta aatgggacta ttcctttgga agcttttctt ttgaattgta gccttcaaga 360
actagacctt tcacaaaatg gatttgctgg tga 393

<210> 18206
<211> 392
<212> DNA
<213> Glycine max

<400> 18206

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gtcatgcta aggcggtttg ttccggtggt ggccacgtac tcaatattgg gtttggtatg 120
gggctcgagg attcgccat tcagcgatat gcacctgctt cacacaccat tgttgaggct 180

catcctgagg tttatgaacg catgcttcgc tccggttggg gccacaatga aaatgtcaag 240
 attgattttg gacgatggca agatgttctg cctgagcttg aaacatatga tggtaattgc 300
 tattegtcta atctttatct tcataaacgt caatgcttga ttgcatcatt acacatacta 360
 ttacaatcga ttggatattc ttctctgaaa aa 392

<210> 18207
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 18207

ctatctgtga tttggagcgg tataaggctc gtcttgttgt caatggcagg tcttaatagg 60
 tgggtatcga ctatgacgag actttcagtc cagtggtaaa accagctact atttgtgtgg 120
 tactaagcat tgtcgtgtca aagaattgga ccattcatca acttaatgta aagaatgctt 180
 ttctctatag gcacctttct gaaaccgtct acatgcatca gcctcctgga tttcgtgatc 240
 gaaatcatcc ggatcatgtc tgtcttctaa agaaatccct atatggcctt aaacaagccc 300
 caagagcatg gtaccaacgg tttgcatctt ttctctccac catcggattt gttaatagca 360
 agaccgacca ctctctgttt atctatactc atg 393

<210> 18208
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 18208

agcttttgtgt gtgattcacg aaagatgatg gagaattgga ctaatgatgg aatgtgctac 60
 aacatttaat atattagttg gggatggatg ggtgccaaatt catctaaatt gatcctaata 120
 caaagatact tgcattgtgt atatgaacga ggtttcatct tatgaattgc atgcgaagct 180
 tttgccacgt acagtgtgaa ataacattct gtattctgtc ctcacgtata taacaaggct 240
 acatattgtg aacaccctcg aagcatttga gactaactct tatagagaaa aaaaaatggc 300
 tgatacacgt ggatgagatg cagtgagacc attggtgata tgtgataaca agtgtggctg 360
 cacacttaca tgcactggtg gattcact 388

<210> 18209
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 18209

agctttcttt gttcaatttc gagcgtctgg atatatattc cgcattgaatc gaatttccgc 60
 gtagcaggt ttgattatt gaattctag agagcattc cgtctcaat ctcaagcgtg 120
 tcaatatagt atgcgcctag ttggacttt tgggtgacaa gttatgacca ttagaatctt 180
 ccgagagcat tcgatgctca attgcgagcg ttacgcgta ttatgcgcac tgaatcgact 240
 ttcccgtgac aagtattgac cttcctatt ggtagagagc atctggattt ctagatagaa 300
 cgtctggatg tgtgatgcgc cagaatc 327

<210> 18210
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 18210

tgcttgctaa cccatggaag ctctaatat ctccacact ttttggggtg ggccattctt 60
 ggatggcctt gattttctca aggtccactt ggacccatt tctaccaact acaaaccta 120
 agaaaactat attatctaca caaaaggtag acttctctat atttgcatag aggtgtgttt 180
 tcctaaggac tgaaagaact tgtctgagat gtcctaagt atcatctagg ctctactat 240
 aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300
 gatgcataag cctcataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360
 attcatacaa accaaacttg gtcttgaaag c 391

<210> 18211
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 18211

agcttctgat ttcaatgtcg agcctcacga tatactacga gacaaaatcg gacatccgag 60
 taaaaagtta tgaaattctg ataccagggg acagatgtcg taccggatgt cagacatca 120
 cgcttcagaa catgcagatt atatgtgtcc gtatgaacag attaaacaag taaataacac 180

aagagaattg tttacccagt tcggtgcaac ctacactaca tctgggggct tccaagccag 240
 ggaggaaatc cactctcaat agtgtagtt caaggctaa cagcccctgt ttacaacctt 300
 ctacctaac cactaccogt gcgatctcta cctaagagcc actcttagat atgagaacct 360
 ctgclactc cctctcactc acactccogt gtttacaatc 400

<210> 18212
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 18212
 agcttttttag taaattcaaa tggtcataag ttttcacacg aatgttcgat tcggggacat 60
 aactcatcta gacgcctgaa attgaacaac ggaagctctc gagaaattcg aatgctcata 120
 agttttcaca cggaatgtccg attcggggac ataatatatc gagatgctcg aaattgaaca 180
 acggaagctc tcgagaaaatt cgaatgggtca ccacatttca ctcggaatgcc cgattcggga 240
 acataatata tcgagacgct cgaaattgaa caacggaagc tctcgagaaa ttcgaatggt 300
 cataagtttt cactcgaatg ttcgattcgg tgacataact catctagacg ctcgaaattg 360
 aacaacagaa gctctcgaga aattcgaatg gtcatac 397

<210> 18213
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 18213
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 aatgtttttg tgagcaacaa aggctaaaat gattcttata acttcaagtc tagcaacatg 120
 aacaaagggt tcagagaaat ctataacttt ttgttgatta tatcctcaag ctactaacct 180
 agctttgttg cactactactt ttccttggtc atccaacttg tttctgaaga ttcactttgt 240
 tccaatggtg ctcttagttt ctggcattgg aacaaatgtc cagacatcat ttttgtaaa 300
 ctgattcagt ttttcttcca ttgagattat ttagtcatta tctatcaaag ctttgtctat 360
 aagtttaggt ttgatttcaa acacatgg 388

<210> 18214
<211> 393
<212> DNA
<213> Glycine max

<400> 18214

ttctatatcc acaaacataa tccaatatcc agaagacttt gatagggaag ttagaatcct 60
cgggaaggca aggcacccaa acctaacagc ctggaaagga tctcttctga ctctcctaac 120
acaactttta gtaactgagt ttgcaccaa tggtagcttg caagccaagc tacatgaaag 180
gcttcttcca agtctctctc tttcttgggc tataagggtc aaaatcttgc ttggaacagc 240
aaaggggctt gctcatttgc accactcttt ccgtccaccg atcatccact acaacatata 300
gccaaagtaac attttgcttg acgaaaatta caacgccaaag atctcagatt ttgggttggc 360
tcggcttctg acaaagctgg accggcatgt gat 393

<210> 18215
<211> 386
<212> DNA
<213> Glycine max

<400> 18215

tagcttggac aacaaaatth gacaactaat agaattatat aaataagaaa taaaaatgta 60
ggataaaatc aaatttatat tctttactta tattcttctt cctattttatt tatgctaaat 120
tgcattgaaa gtgaaatata tacaatatta taattataat aagaattcag aaaatataat 180
ttggtggagt aaaactgtag agtatttaat tttaaataat aaatttatta atgcacaaaa 240
aagaaaaaca tgttggcttt taacaattgt gcaactcttt ttatgttagg tttataattg 300
taatttttag agcacatct taattatgat ttataaatat ttctggaata ttaatttca 360
gggtatcaaa aaagaaagat atgttc 386

<210> 18216
<211> 361
<212> DNA
<213> Glycine max

<400> 18216

agcttgacca ggaattatth gttgggttgg atgttgaatt ctggttggtc ctgctgcgga 60
gatgatggta cagaggggtg accatgagct gaagcttctt ttggtgaggt agccatggaa 120

aagcatagcg tttggaatga ttccgtaaata ttctgagagc tgctggggaa tgcagaaaac 180
gagattaaca cgaaaatata agtttgaatg atgaatgtac agggacgtgt gaagcaacgg 240
tcgaatctgc tttggttcag tatgtgaacg tgctattaat gtttaagtgt tcctttgggc 300
acgttcagat atcagtattt gctacaattg ctctagcaga caaattgccc atttgcccct 360
C 361

<210> 18217
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18217

tagctacaca caccctcta ataactaagc tcaccttctt gagaatcttc ctttaanaaga 60
ttcctaaaga agctagagct tagctacaca cacctctcta atagctaagc tcacctcctt 120
aagatgagaa gctagaactg tgctacacac ccctataat ggctaagctc acccccatga 180
caaaatacat gaaaatacaa aaaaagtccc tactacaaag actactcaaa atgcctcgaa 240
atacaaggct aaaatcctat actactagaa tggccaaaat acaaggccta aacgaaggaa 300
aaaacctatt ctaatattta caaagataag cgggctcata cttagcccat gggctcaaaa 360
tctaccctaa ggctcatgag aaccctaggg ccttcccttg gatctctggc ccaatctact 420
tggagtcttc ta 432

<210> 18218
<211> 386
<212> DNA
<213> Glycine max
<400> 18218

agcttgataa tacatctttc aaaatcaaaa gttatcttat atcctttatc acacaattga 60
ctaatactta atagactatg ctttaaacct tctacaagta acacatcttc aatgggagta 120
gaggaactcg tacctatctt gctgactcca atgattttgc ctttggtgtt gtcaccatat 180
gtaacatgct cacttttctt gggggaaatg gttgtgaatt tggatacatc tectgtcata 240
tgtacggaag atgaagacgt acacacgatt tatactgggt cggccacaaa ccgtgcctac 300

attcagtcgcc caagcaacct gcgagtccttg agatgtctat caaccttgga aaatccttta 360
 caagccatag atccacaagg gatgta 386

<210> 18219
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18219

tatgtgcgac tctgatgatg aatcagaagc cgtttatgct cggatatatgc ngtgccgcan 60
 agataatggt gagactagca cttggctaga aggaatttac aaaatgaaag aaaaatgggc 120
 tagttgctat atgatagatg cttatagtat aagaatgcca agtactcatc ttagtgaaag 180
 tttcaatgct agtgtgaaag attatgtcag atcaagctcg catataatgc acattttcaa 240
 acattatgag cgagctgttg atggcdaagca atacaatgaa ttagatgctg aatacaatag 300
 caggaaaaaa cttcatcggc taatgataga aactcacca ttattaaagc aggttacgca 360
 actttacact ccaataatgt taaattccgt tcagaatgaa tatg 404

<210> 18220
 <211> 314
 <212> DNA
 <213> Glycine max
 <400> 18220

agcttgaatc ggacatccgt gtgaaaagtt atgaccatct gaattttctca agagcttccg 60
 ttgttcaatt tcgaacctct cgacatatta tgcacccgaa tcggacatct gtgtgaaaag 120
 tcatgatcat ttgaatttct cgagagcttt cgatgtttta tttcgagcgt atcgatatat 180
 tataaccctg aatcggaacct cagtgtgaaa agttatgacc atttgaatgt gacgagagct 240
 ttcgttgatc aatttcgagt atcaactcgat gtgacgcgcc ttaatcggac attcgagtgt 300
 aatggttatga ccat 314

<210> 18221
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 18221

agcttcaaga ataatgtgcc tcagcaaact tcttattccc agaaggaaat tcaatagata 60
 tgccctcttat ttttaatgga gaggggtacc actactggaa aacctgaatg caaattttca 120
 ttgaggcaat agacttaaac atttgggaag ccatagaagt tagaccttat gtaccacact 180
 tggtygctgg aaatacaaca atagagaaac ctagaaaaga gtggtctgaa gaagaaagaa 240
 gattagtgc gtacaattta aaggctaaaa atatcattac tctctgccca ggaatggyty 300
 aatatttttag ggtgtcaaat tgtaagagt ctaaggatat aagggacact ctacaagtta 360
 cacataatgg aacaactgat gtcaa 385

<210> 18222
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 18222
 attttcctta gagaggtttg gtgctccgtg taggaagaga tggttttgag aagagagaaa 60
 gaaaaaataa attcacgagg atgaataatc gaaaaagcta tttatatcta aggtattcac 120
 aacctattat ttactctatt gattttattgc tattatttaa tacaacatt atattttatt 180
 ccctattcaa taaataaata aaatattttt tgtattttct cgaaccatta ttctaattaa 240
 taattttttt atctatttaa ttataaaatc tcattatctt ttcaaactct tatttttttt 300
 cgaataacaa tcattgttaa atcagtttat aagaaaaatg aaatgttaca catgtaaag 360
 ccaatatcaa tataactatg 380

<210> 18223
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 18223
 tctacattca attccgagct ttgcgatata ttactgtatt caattggaca tccgagtcac 60
 aagttattgt agtttgaatc tgctcagggc tgcgggattc catttcgagc gtctcgatat 120
 attacgggac tcaatcggac atcagagtta aaagttattg atgctagaat ttgctcagag 180
 cttgggtatt ccatttcag cctctcgata tatgacggga ctcaatcaca catccgactg 240
 aaaagttatt gaccctcaa tatgctcaga gggtcggcat gccattctga gcgtctcgag 300

gtattacagg actcaatctt acctccgagt aaaa

334

<210> 18224

<211> 372

<212> DNA

<213> Glycine max

<400> 18224

atctttctta agaagatttc taaagaagct agagcttagc tacacatacc tctctaatag 60

ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120

aagctcacc ccatgacaaa aaacatgaaa ataacaaaaa aagtccttat taaaaagact 180

actcaaaatg ccccgaaata caagggttaa accctatacg actagaatgg ccaaaatata 240

aggcccagac gaaggaaaaa cctattctaa tatttacaaa gataagcggg ctcatactta 300

gcccattggc tcgaaatcta cctaaggct catgagaacc ctagggcctt cccttgatc 360

tctagcccaa tc 372

<210> 18225

<211> 319

<212> DNA

<213> Glycine max

<400> 18225

actcaagctg gacccacagg aagctgctaa tatttccac acttttggag gcgggccaat 60

cctggatggc caagaattac tcatgggtcca cctgtaccgc atttatacca actaccaaac 120

ctaagaaaac tataatatct acacacaatg tacacttacc tatatatgca catatggcgt 180

tattcctaata gactgagaga actagactga gatagcctaa gggaacatga aggctcctac 240

tgtacactga aatatcctct agacaaccta ctgcggatct agttatgaga tcccataaga 300

catgatgcat aagcctcat 319

<210> 18226

<211> 361

<212> DNA

<213> Glycine max

<400> 18226

agcttcaaca tcagactcct tccagggtgc tggaactact tcacatggac ttgatggggc 60

ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120
ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240
atggcagaga gtttgaaaac agcaagtita ctgaattctg cacatctgaa ggcactactc 300
atgagttctc tgcagccatt acaccacaac aaaaatggcat agttgaaagg aaaaacagga 360
c 361

<210> 18227
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18227

tgtgtcgcac tggctactgc ggaagttaaa catatttctg cagtttagctg angagctcaa 60
agactctgga tgaagcatca acttgaagac tttggagtaa accttgatca cattcctcta 120
aaatgtgaca acacaagtgc gatcaaccta caaaaaaacc ttgtcatgca ttctaggact 180
aaacacatag agataaggca ttattttctt agaaatcatg tgttaaaagg tgattgttgt 240
attgagttca ttgatagtga gcatcaacta gcagatattg tcactataacc tcttgctaga 300
gataggttct ttttcattag aaatgaacta agcatattag atgcatctag catagaatga 360
tattctgttt gcacagtgtg tgtgattgac attgctactc atataat 407

<210> 18228
<211> 429
<212> DNA
<213> Glycine max
<400> 18228

ctccacaaca cctataaagt agggttgcc aaccaacaat cattcagtct atatggctct 60
gggccctaatt cttataatga actttacaag atgatcggac aatggttgaa aaagttccta 120
tccaatacca caagcaagct ccctttccat gtgtcaaccc attcccttga agtcaaacgt 180
ctatctaata cactcatggt cttaccattt ggatgaaacc atgtgaattt tctccccaca 240
aatggaatat ctaccatatt catatccaag ataaattcat taaactctct attatgcccc 300

ccatgaggat gtgtattatc actttttctt tgatgcatac cacatacact attaaaatct 360
ccaatagggc accaatgatac aatgctactc ccactccttc tacctatgag ttcctaccac 420
attcttctt 429

<210> 18229
<211> 376
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18229

agcttctttt tgttggcagt taaggaacta gtgaagcata gacaaccaa tactcttaaa 60
gaactaatat catagggggg tccatagagt ttctcatagg gagttttgtt accaagaaaa 120
gtagtaggta tgcagttaac aagaatacca aagtgaatta aagcataaga ccaacaaatg 180
aaaggtaaat tagattgaaa caacaaggat ctagtaacat taagcaagtg ttgatgcttt 240
ctttctacaa ttccattttg ttgagggtgt tcaacgcagg aagtttggtg tataattcca 300
atttcatcat agaattgtct tagaatgaat tctgatccat tgtctgatct aatcattttc 360
acctttatat caaact 376

<210> 18230
<211> 438
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18230

ctagcatcaa tgacagacca tttttaataa atgagtgatt tgctcnaatt catgctttta 60
tactatcatg tatatacccc caaaattatt agagtgtggc aacaatgtct ttgatagtac 120
aaagtcaaca atatagataa tatgtaaata aatatgttgt ctacaaaaat caatgctacg 180
aagacatgtg taaatgactc ttgagaacat cacatataaa tagagatatt ctaacatatt 240
tttatttatt tatttaagtg taaataaagg agaaaagaaa taaataagat aaaaatatta 300
tttttggtcc gtctacacac aaaaacaaaa aaaattccca taatttatta ctaagaaaga 360
catgtaggtt gngattatta ttctttcttc tattttaaaa attaaataat tctgtaaaaa 420
tataaacatt aaataatt 438

<210> 18231
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 18231

agcttgcacat gaatttggttc atgtgtracta gtaaaagaggr tggcataatc ctgtcataaa 60
 acacaaccat aaactaaaat aagcatatgt gatcagtgtc aaaataaaat gcaaccattt 120
 acaaaaccaa tcaagaaaat aagaatagat tattacagct aaccaatcaa caagcctttc 180
 aagtagccat gcttgagatt gcttgtccac ataaaatatt tcaattaact cccacgcagc 240
 tttaaagat gtaggctctt cacctctcta tattatgtgt aatgtgttaa aaagcaagtg 300
 attaacttct cggatcata attcccacaa agcagatctc agtcagcta aacacggtaa 360
 aac 363

<210> 18232
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18232

gcgattcact cgtcccggga tcttagagtc actgtatgct gcaagcttct acattcaatt 60
 tcgagcgtct cgatatgtta ccggacccaa tgagacatcc cagtaaaaag ttattgtcgt 120
 ttgaattggc tgaaatcttt aacaattaat ttccagcgtc tcgatatgtt acggtacttc 180
 atcagacatt cgagtaaaaa gttattgtcg tttgaattaa ctcagagctt caacattcaa 240
 tntcgagcgt ctcgatatat tacgagcctc aatcagacat ccgagtaaaa agttattgtc 300
 gtttgaacta gctcagagat tcaacattga atttcgagcc tctcgatata ttacgagact 360
 caatcagaca 370

<210> 18233
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18233

ctcagcttga gccattcnac aacataactt ttactcattg tctgattgag tcccgtaaca 60
 tatcgagacg ctcgagattg aatgttgaac ttttgagcta attcaaacga caataacatt 120
 tttctcggat gtctggttga gtcccgtagc atatcgagac gctcgaaatt gaatgttgaa 180
 cctcttagct aattcaaacg acaataactt ttttcacgga tgtctgatag agtcccgtaa 240
 catatcgaga cgctcgaaat tgaatgttga agctctgagc caattcaaac aacaataact 300
 tttttctcgg atgtctgatt gagtcccgtg acatattgag acgctcgaaa ttgaatgttg 360
 aaactctgag ccaattcaca caacaataac tttgtactcg gatgtctgat tgagtc 416

<210> 18234
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18234
 tgttcacccc atgtcgaatg cgctttttta gagcttttca tagtaccact aattgttctc 60
 cttatgaaga tgagcatggg ttttaacccac taactcctct tgacctttcg cctaattgctg 120
 ctgtttataa ccataaagaa cgtcaagcaa aggcggaacta tgagaaaaag cttcatgaga 180
 gagtcacaga tcaaattgag agggaaaagta acagctatgc taaacaagcc aacaaagggg 240
 gaaagatggg tgtctttctaa cccggagatt gcgcacgggt gcacatgaga taagaaacgt 300
 ttcctgaaca gaggaatca aagcttcaac caaggcgaga tggaccattt caagtgtctg 360
 acagaatcaa tgacaatgct tacaaaattg agctgcccgg tgagtataat 410

<210> 18235
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18235

atctttaact cggatgtccg attcaggcgc ataatatatc gagacacttg atattgaata 60
 acagaagctc tcgagaaatt cgaatggcca taacttttca cacggatgtc cgattcgggc 120
 gcataatatg tcgagacgct cgaaattgaa caacggaagc tctcgagaaa tcctaattggc 180
 cataactttt cactcggagg accgattcat gcgcataata tatctagacg ctcgaaattg 240
 aaaaacggaa gctcccgaga aattcaaattg gtcataaact ttaactcaga ggtccgattc 300

atgcgcataa tatatcgaga cgctcgaata tgaacactcg aagctctc 348

<210> 18236
<211> 416
<212> DNA
<213> Glycine max

<400> 18236

actcagctgt agcaaagca actgtatacg ttttactctt tgttcgattg agtcacgtaa 60
tacatcgaaa cgctcgaaat tgaaaacaga agctctgtgc aaattcaaac gacaatacat 120
tttaactcgg atgtccgatt gagtcccgta atatatcaag aactcgaataa ttgagaataa 180
aagctctgaa caaattcaaa cgacaataac tttttactcg gatgtgcgat tgagtccagt 240
aatatatcta gacactcgaa attgagaata gaagagctga gcaaattcaa acgacaataa 300
ctttttactc ggatgtccga tggagtcccg agcgtctcga tatattatgc gcctaagttg 360
gacatccgag tgagaagtca tgacaattat aattgctcga aagcttacat tgttca 416

<210> 18237
<211> 368
<212> DNA
<213> Glycine max

<400> 18237

agctttttaa tattattatg ttttacgtaa ttatTTTTTT agtcccgaaa aaaactattg 60
ttattaatcc ctcaatttgt ggcgatttgt caagtcaaaa atatttttta atggaatttc 120
tctaaagata attagttggc tattttaaag agtcgtaata tgtaaaagat tacgataatt 180
ctatatcaat tatgtatttt tcttctttta accaatagat atgtaaaaaa tgattatcaa 240
accattcgag tcaaatattt tagtggatta gaatcgctaa aaatcatttt taaaaaaatt 300
tatgataatg gtgatggta aaaatcatta taaatcgtga aactataaat aaattatata 360
aagagaga 368

<210> 18238
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18238

tcacaaaagt ttatatgact tganacaagc accgagtcag tnggactaga agnntaatga 60
gtttatgagc aactcaggat tcagaagatg tgacatggac cattgctgct atgttaagaa 120
atataactaat agttatgtta ttcttgtcga gtatgttaat gacatgtcga ttgcaggatc 180
tagtarggca aaaattaaca agltgaagca gcagttggca gaaaactttg aaatgaagga 240
tcttgggtcca gctaaacaaa tcttgggtat gagaattctt anaaatagat aagaaggaat 300
cttgaagccg tctcaggaga tatatataca caaattgctt gacaggtttt accttggaga 360
ttctaagacc aggaatgccc ttctgggatc tcatttgaag tttcaaagaa gcaatctatg 420
cagacagatg 430

<210> 18239

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18239

tactccacaa tgtttctccan aaatgttttt ggaacttggc atccctatca cttattatgc 60
tcatgcacag tccatagagt gtcaccacct ccttgtaaaa taagtcagcg acatggaaag 120
catcatcaac ctttttgcaa ggtataaaat gagtcatttt tgaaaacttg tcaataacca 180
caaaaacaaa atctttgcca ctctttgttc taggcaatcc caaaacaaag ttcatagata 240
tgtcaatcca aggaaaatta ggaacaagca aaggatgata taaattaagt ggcttcactt 300
ttgattnttc ctttttacaa acaatgcatt gttcatagta tttatgcaca tcacgtttca 360
tatggggata ataaaatgct catgcaatgt ttcttaagtc ttttgcagtc caaaatgccc 420
catcaaa 427

<210> 18240

<211> 285

<212> DNA

<213> Glycine max

<400> 18240

accagtccc cctcattaag aactagctcc tttcttcctc tattgccctt agttaaatat 60
acctttgctt ggatctctat ttgggtctta acctctcat gcaacttctt taaaaactct 120

gacctagatt ccccttcttt atgtataaaa gaagtgtcaa gagggatggg aatgaggtct 180
 accggtgtta agggattgaa cccatagaca acctcaaaag gggattgctt ggtggttcta 240
 tgaacccctc tattgtaggc aaattctaca tgaggaagat actca 285

<210> 18241
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 18241

tttgcaagtt tgttcattcc gaagagaaaa aaaatagagt tgtcatagga taaaaatgaa 60
 ttctttatag ttggagtaaa acggaattg aataaattaa atgattaatt attgtttttt 120
 cttgtaagaa ttaatgtctc atgtgatagg catatgactt atgtagagaa taataagtaa 180
 ataattaacg attaagggct aaattgtaat tgggcttaat atgagaagta tctagagcta 240
 actgctactt gatgggagta gtgattataa atgggggata ataccacta acgttaaata 300
 aggtccctt cctgactaga aagtgtgctc tctcacctat agtcattacg aacggagaga 360
 gaca 364

<210> 18242
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18242

tttcaagttt taacctttta acaaactaac taatatataa tttcaaattt taatgataaa 60
 aatctaatac aacaacaatt aaactaatat aggttatatt gttactcatt taatatgaaa 120
 atatattaga tataaaatgt ttttcaaact aactaaataa aagagtggat gcatgtgtag 180
 gttaatagcc tataactaaa acctttataa cataacattt gtttttctcg agaaaacatc 240
 tcacttgttt taagggtgtg ctacgtgtac caatcatatt acttgtgcac ccagcacaaa 300
 aaatttaatt tcgaaaatgc tcttatnngc tttttcttcc ctttaagttt cnttttttac 360
 aataacacag tcattctttc atttt 385

<210> 18243

<211> 416
 <212> DNA
 <213> Glycine max

<400> 18243

tagtgacaaa aatcctctaa taccaaaatc catggtttgt gaaacattgg toggatgaag 60
 aacaacatct tatggactcc ccttggccat tegtgtttr gggaatggat attctcggaa 120
 atttaccat ggctccaatg caaaggaaat tctgtctagt ggcagatgat tatttcacaa 180
 aatgggtcga ggtcgaacca ttagcaaaca taacaaccta tgccatccaa aaattctttt 240
 ggaagaatat cattacacgc tttagaattt caaacacatt ggtaaaaaaaa atgggtttaca 300
 attcacagaa tgaatgctca atgagttctt aagcagcctc gaaatcaaac attgggtgac 360
 gttttagtaa ccccccaaa ccaattatca atctaaagca gccacaaga taattc 416

<210> 18244
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 18244

agtttggaaa ctctttggca agatacatcc agattttccc attgaccgc ggaatgtgcg 60
 acttggttta tgcatagatg gatttatata caatcattat cttcacctta tttggcttgg 120
 tcaatcattg ttaccccata caatcttctt ccagaaatgt gtatgactaa accttatatg 180
 tgtatcaaga ctaaacctta tatattcaaa gttcaatgag caatttagga aacatggatt 240
 tgaacatgat gcatctatgg tgagaaattc aattctagca aatccaccaa accgtttagt 300
 caaatttcta cttaagagcc atcaaacttt aatcaggaga gaaaaatata gagagagact 360
 ttatt 365

<210> 18245
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18245

agcttttcct ttattgttct actagagatt ccaagtgtta gagaaaagaa gaagggattg 60
 gagcctcaat ttcactgtct ttgtgtgagg gtaatttctc tctctataga cattatttgc 120

aaatcccaac tgtgagaatg tgaggaaata agttctgaag ttgatgtccc aatttcagaa 180
 caatcgaacg gttaacgagt ctgggatcat aattntactg ggatagggtt ggggtgatgc 240
 gggaaaaaga gagggttatg gaagataaag aagggagaat gaatttgaaa gacaggaaga 300
 gcatagagac acatcgtaat tgtgaaaact aacctaatat gtatctatct atagctagga 360
 tctcttttagc ctattactta ctctat 386

<210> 18246
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 18246

agtttgagaa tggagaattg cacaaagcaa tctactacga tggctccaaa gtcgaaggtt 60
 taaaacacat gaacgaaaac gcaattcatg gggctccgaa aaaggggtta caatggagaa 120
 ttgcactaat caatcactac gcatggctcc aaactcgaag gtggaggaca catgaacgaa 180
 aacgcaattc atggggctcc gaaaaagggg ttgagaatgg agaattgcac taagcaatca 240
 ctacgcatgg ctccaaactc gaagggtggag gacgcatgaa cgaaaactca attcatgggg 300
 ctccgaaaaa gggtgagaat ggagaattgc actaagaaat cactacgcaa agtttcaaac 360
 tcgaaggtgg aggacacatg aac 383

<210> 18247
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18247

accttcggct tgcaagtttg taggcgtngg atcttcttca tcaatggagt catttgcttc 60
 ttgaagatca tggcagcggg atagagaagg aagaaagatg attggagacc ccactctagg 120
 agatgatgag tcaagaagaa gctcaccacc acaggaagcc atggataaga gcttgaagga 180
 aggogaatat gagtggaggg agagggagag aatgggcacg atattttatg cctcanatga 240
 ggtctgaact ttgaagtgtg attctcaaata gatcaaagtt caaaaaatgc acacacatgg 300
 cctctattta tagcctaagt gtcacacata attggagaga aatttgaatt tctattcaaa 360

ttcactcgaa tttgaaattg aatt

384

<210> 18248

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18248

agtttaagct ctcttaactg cataaggctc ttaatatattg aagagtatcc ttgtggaacc 60

ttcacccgac gaagacactg acaaaaagtt atcttctcct ttttggacaa agtatgaaag 120

ctaggggcaa gtaaattttc ttcccatcag accttggatg caactgtgat cgtatcccca 180

tctcaactag atcttgacgg gtattcaagc catccttcgt cttgccctan atgttaagga 240

gcgtcccaat cacactgtca catacatttt tctcgacatg cataacatta atacaatgtc 300

taacgtctag atcagaccag tatggaagat aaaagaaaat gaacctcttt cttcatatgc 360

aagtcttact tttattcttc ttttgggtct tt 392

<210> 18249

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18249

agtttaagct tttntaactg cataaggctc ttaatatattg aagagtatcc ttgtggaacc 60

ttcacccgac gaagacactg acaaaaagtt atcttctcct ttttggacaa agtatgacag 120

ctaggggcaa gntaaatttc ttcccatcag accttggatg caactgtgat cgtatcccca 180

tctcaactag atcttgacgg gtattcaagc catccttcgt cttgccctaa atgttaagga 240

gcgtcccaat cacactgtca catacattnt tctcgacatg cataacatta atacaatgtc 300

taacgtctag atcagaccag tatggaagat aaaagaaaat gaacctcttc nttcatatgc 360

aagtcttaac tttattcttc ttttgg 386

<210> 18250

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 18250

tgtagaagca aaaggccagc tatggttttc aaggtgtatt ttgaaaaggc ctatgactca 60
gtctcatggg ctttttttga ttatatgcta caaagaatgg gtttttgtcc caaatggaga 120
cactggattt ctgcctgtct taattcagca agcatttcta aaagatgtcc aggtttaatt 180
ctctgatitg acgclagtca acaaattgll tctgacaagt caccagcta ccaagcttgt 240
aaggattcta ccgaaatcat tgtgattgaa aggaaaagat aatagaaagt aaatatgatg 300
ctaggataac aaatggttgt cattntgaga tgattaatac actggcttag tacttcaatt 360
tattcttttag aaccaataag gagactgagt atttaaagta aaaatataga ggacttccat 420
antttggaaa catgaatg 438

<210> 18251
<211> 429
<212> DNA
<213> Glycine max

<400> 18251
tatgctgcat acatttataa tagaccccct cttcttttaa accaacaaca gcagaataat 60
gatgatcttt caagcaacag atacaatcca gggttgataa atcatccaaa tctgagatgg 120
gtaagtcttc cacaacaaca acagcctgtc cctcccttcc agaatgttgc tggccaagc 180
aagccatatg ttctcctcc aatatagcag caacaacaac aaagacaaca agcaactgag 240
gtcctccttc aaccttctt agaagagtta gtgagtcaaa tgaccatcca gaatatgaaa 300
tttcagtaag agacaagagc ctccattcag agtctgacaa atcagataag gcagaatgct 360
actcagttga accaagctca gtccaaaatt cttacacatt gccttcacat actgtgtaga 420
atctgaaaa 429

<210> 18252
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18252

agtttctgag ttgttttttg attgnacatt tcaatacttg gtaaaatgtg ataatgggct 60

ttaataaatc atttgggagt gatatttaaat tattgtaaat tattggccga gtggctacc 120
tagagggaga tccaataat tctagtgatg atttgtggaa ttaacttgct gtatgatgcc 180
attcaattgt gaacatgagt tgataattgt gaaattgggt ccagagggat tgaccctgat 240
gtaagctcca ttggagcttg taggcctaag atcttctca tcaatggatt cctttgcttc 300
ttggaagatg aatggcagcg gaatggagaa ggaagagaga gaggagatgc caatttaagg 360
agaagatgag tcta 374

<210> 18253
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18253

nttaactgaa ttgtcaatgt tccaattggt ttttaattgg tgtaatcgat tacaatatat 60
tggtaatcga ttaccagtgt atctaaacgt tgaaattcaa attcaattgt gaagagtcac 120
atcttttcat aaaatgcttt gtgtaatcga ttacatgggt ttggtaatcg attgccagtg 180
acaagttttg aataaaaaatc aagagatgta actcttccaa tgcttttctc aggattttct 240
caaggttata actcttccag tgattttctt gaccagacat gaagagtcta taaaagcaag 300
accttgattt gcattntaat aacttcttca taactttntg aacgtctttn tgaacttctt 360
cttcttcttc ttcctttgcc aaaagcttct taaagttttt ggtttctaaa ccttgttctt 420
tcacagaaaa caaaagt 437

<210> 18254
<211> 365
<212> DNA
<213> Glycine max

<400> 18254

agtttgccat gaatcgtgcc atgtgtacta gtaaagaggc tggcataatc ctgtcataaa 60
acacaaccat aaactaaaat aagcatatgt gatcagtgtc aaaataaaac caaccattta 120
caaaaccaat taagaaaata agaatagatt attacagcta accaatcaac aagcctttca 180
ggtaaccatg cttgacattg cttgtccaca taaaatattt caattaactc ccacgcagct 240
ttcaaagatg taggctcttc acctctctat attatgtgta atgcgttaaa aagcaaatga 300

ttacttctc ggtatcataa ttcccacaag cagatctcag ctacagctaaa cacgtgaaac 360
 aaatt 365

<210> 18255
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 18255

gtgcagaaga aaatgagaaa tttaacaaac attgtgttgt tatgtttttc atttttaatt 60
 gtaatgttag ttttaggggg aatgtatttt aggtaaaatg tgtaatagca gcttttgata 120
 ttgtaattgt tgttttgctg aagaatttgt agtaggaagt agcttttgta gtgtaatagc 180
 agcttttggt gctactgtca attgttgttt tgctgaagaa tttgtaatag gaagtagctt 240
 ttgtagtgta atagcagctt ttgttgctac tgtcaattac ccatttcaat taaatataat 300
 ttgttggtga aatttggtgc tgaaatttgc agtgtattaa atataattta ataaaagata 360
 gagaattatg taataagacg cagctcataa tgtatgttgg gatggattgt actactccaa 420
 ct 422

<210> 18256
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18256

agttttacat atttccaact aaaatgggtc tgtcttgcaa taagattgta ctgttttgat 60
 gatccagatc atatgatggc aatgaagatg atcaaccaag cactgtgagg aaggggaaaa 120
 taaagtcttt cacttcttat tgtggtggac ttccatctcc tgaagctgct aacaatccat 180
 tagcatataa attcaggtac ttcttggaat gtctttgtca aactcaagag taaggatacc 240
 gaattatgta tttaattaga catgatttat aaacatttg aatatcttag tgtaagtttc 300
 caaaacccaa tgcttttgaa ctctctgctn tgtagtattt tcatctggct aaccattcaa 360
 ctatagtatg tcaca 375

<210> 18257

<211> 349
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18257

taataatcta tggcttgaaa caagcctccc ttctatgnat cttaaagtttc atgatgtcat 60
 cactccattc gactttgaa agaacatcat ggalcaatgt atataccaa aggtcagtga 120
 gagtaagatt tgctttctgt gttaaactgt gatgacattt tgcttgcaac taatgataag 180
 ggtttgctat atgaggtgaa acaattttctc tcgaagaact ttgatatgaa tgatatggga 240
 gaggcattctc atgtaattgg cattaagatc catagggcaa gatctcgagg cattttgggt 300
 ttgtctcaag agacttatat taacaaagtt tcacagagat ttacatgaa 349

<210> 18258
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 18258

ttcacacttc catgtcgaat aggcaataaa ccttcgcttg atattgatcc tcctaagag 60
 actatgcagc tcctttctgt tttagaggtgg cctcacttcc aacattgctt tagctttatt 120
 tttatctgtc ttgattcttc ttgatggaa aaggaaaccc aaaaagtttc cagttgatac 180
 tccaaaagca cattttctca gattcatttc taagtttatg aaacctcatc cttaaaagag 240
 aatcttccaa atcaccaagt gtttttcaaa attggatgac ttaacaacca catcatcaat 300
 gtaaacctcc atcaatttgc taatcaattc atggaaaata acattcctag cccattgata 360
 ggtagctcct aaattcttca aaccgaatga cattaccaat ca 402

<210> 18259
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18259

agtttttgag ttattcaa at ggtcataact tttcactcgg aggtccgatt caggcgcata 60
 atatatcgag acgctcgaaa ttgaacaatg gaagctcttg agcaattcaa atgggtttaac 120

tttttactca gatgtcctat tcaggcaa ataatatcga gacgctcaaa attgaacaac 180
 agaagctctc gagaaattca aatgggcata acttttaact cggaggtctg attgaggcgc 240
 attatatatc aagacgctcg aaattgaaca atggaagctc ttgagcaatt caaatgggtca 300
 taacttttca ctccgagggtc ctattaaggc gcataatata tcgagacgct cganattgag 360
 caatggaagc tcttgagca 379

<210> 18260
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18260

tccattgttc aatttcgagg gtctcgatat attatgtgtt ttaatgagac ctccgagtga 60
 aaagttatga ccatttgaat tgctcaagag cttccattgt tcaatttcga gcgtctcgat 120
 atattatgcy cctcaatcgg acctccgagt caaaagttat gaccatttga atttctcgag 180
 agcttccggt attcaatttc gagcgtctcg atatattatg cgectgaatc ggacctccga 240
 gataaaagtt atgaccattt gaattgctca agagcttcca ttgctcaata tcgagcatct 300
 cgatatatta tgcgectgaa tcggacctcc gagtgaagaa ttatgactat ttgaattgct 360
 taagagcttc cattgttcaa tttcgagcgt ctcgatatat tatgcgtttg 410

<210> 18261
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18261

tcaacatcag accacttcca ggggtgctgga actacttcac atggacttga tggggcctat 60
 gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120
 atttacctgn gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaagagtt 180
 gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaattagga gtgacctagg 240
 cagagagttt gaaaacggca agtttactga attctgcaca tctgaaggca tcaactcatga 300
 gttctctgca gccatcacac cacaacanaa tggcatagtt gaaaggaaaa acaggacttt 360
 gcaagaagct gccagggtca tgcttcatgc cnaagaactt cectataatc tctgggctga 420

agccatgaac acagcatgc

439

<210> 18262

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18262

gtgngatcat ttcaaatac gtaatcttct tatccttcaa ccttggatgc ttttaagggg 60

ttttgatgag atcatttata ctactgagca atgtgggggc ttctttccta atgctagagc 120

taatgtcttt ggtagcatga ttgatgtgtg tttcttgttt gatgtttact ccatcagtag 180

ttttttcact tggtaaaaaa ggtgtagaaa taatgttata atctcccgta tgttggataa 240

atgcttgact agtgatactt ggaagaatat gtttctaat gcttatgtgg aggttctttg 300

caggatgcat tcaaatacata atctcttatt cttgagatgt gatcgtcaag agaataagagg 360

tgtcaaacct tttatatctg aagcaacgtg aaccactcac ccacaatata agattgtggt 420

tgcta 425

<210> 18263

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18263

ntcaatgctc ttaagcaaaa gttaaccaat gccccatac ttgctttgcc aaatttttca 60

aaatcttttg aaattgaatg tgatgcttca aatgttggga ttggggctgt attgttacia 120

gaaggctcgc taattgctta ttttagtcaa aaattaagtg gtccctaccct taactattct 180

acttatgata aggagtgtga tgccttagtg agagcgttga aaacatgaca acgctatctt 240

tatcctaagg agtttgtgat ccatagtgac catgagtcac taaaatactt aaaaggacaa 300

gctaagctaa acaaaaggca tgccaaatgg gtgaaatttc ttgagcaatt tccttatgtt 360

attaaacata aaadgggaaa aggaaatatt gttgaggatg ccttgtcaag gagacacttt 420

ntgctntcta tgcttgaaac aaaa 444

<210> 18264
 <211> 423
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18264

tactaaggca ccggtcttag ctcttcorga ctnttcttaa tnttlgagct anaatgtgat 60
 gectctggag tgggagttgg agctgtattg ttacaaggty ggcacctat tgcttatttt 120
 agtgaaaaac ttcatagtgc cacctcaat tatccacct atgataaaga gctttatccc 180
 ataataagag cctccaaac ttgggaacat taccttgttt ccaaggaatc tgtcattcat 240
 agtgaatcat aatcactaaa gtacattaga gggcaaagca agttaaaca gaggcattga 300
 aaatgggtag agagccatga ggggtgggtc atgggccact ntgggataga caagaccctt 360
 gttttactca nagaaaaagt ttattggccc catatgaaga aagatgtcca taagcattgc 420
 act 423

<210> 18265
 <211> 384
 <212> DNA
 <213> Glycine max

 <400> 18265

agtttgacta gttggtttta tttggggtga tttttgggtc tggattttta gaaaggttta 60
 tgttatgttt tatttttatt taattgattg tggagatctt aaatcttggg ataagaaggc 120
 ttatgttgtg ttttgttttg ttttaatcga ttgtggagat cttgaatatg gagaaaagat 180
 ggatttatgt tgtgttttta ttttgtttta attgaatgtg gagatcttga atatggagaa 240
 cttgaatttg agatatcatt catgtttcta tctttttaac ttcaattaat tttgacatgt 300
 tttaaactgc caaaaaattg taatttgatt ttctgaatga atactagagg gtttaaaaac 360
 tactgaaatt gtaatttccg aatg 384

<210> 18266
 <211> 371
 <212> DNA
 <213> Glycine max

 <400> 18266

agcttccaag atgcactgta ccttaacaag ctccaagtta aaggcgaggt ttatgatcct 60
tctgtgaagg gccactggt caccctcgag gccacaaag ccctgtccaa agagcaactc 120
gactgacggg tgaacggaac tttcacatac tccccgcgcg tgttcatgag cacctcctta 180
atcatgtccg gttcggttac cgccaaccgc ggcgtogaac cgaaccagta caagaaagtt 240
ttccrctacc cgcgaqacca ccggacgtag aatggagcca cgcgtcccat atgtctgtgg 300
tggaacggag gaggggatgc acttgccctc gacttggett ctgcgtagag ccgtcggatc 360
tctgatgtat t 371

<210> 18267
<211> 406
<212> DNA
<213> Glycine max

<400> 18267
cagtagatga agatgaatcc gtggccttct ttggactcct ctaaggacaa tagcatcatt 60
tcttgactg aattgttggg agttggaagt catcttctca atcaaattcc accactggca 120
gtatcaatca tactcctctc catgttgcta agtccctcat agaaatattg aagaaggagt 180
tgctcagaaa tctggtggtg aggatagctt gcacacaatt tcttgaatct ttcccagtac 240
tcatacaagc tctctccact aagttgcctg atgcctgaaa tgtcttttct gatggcagtg 300
gtcctagatg caggggaagaa tttctccaag aacaccctct taaggctatc ccagctgata 360
atggacctgc gagcaaggta gtagagccca atttttgcca ctccct 406

<210> 18268
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18268

ttcaaaattg atagtggcct gtcacttgat atttttatat gcgaatggga catccttctt 60
tgaagattac taaattggtt tcaaataata gtagtaggaa taatgactat ggaaataagg 120
catgtgatgt ttgccaaagg gctaagcaaa ctcgagatag ctttccttta agcaataata 180
atgcagcaga tgtgtttgag ttagttcatt gtgacatgta ggggccttat aaaactccat 240
cttcatgtgg tgcttattat tttttaacta tagtggatga ttattctcga gcaatttggga 300

ttttcttgtt gttagataaa aggggaagcac ctctgtgcttt gntgaattta attgcattag 360
tagacaaaca atatgaaaag gagggttaata tgattcgaag tgataatgga accgaattac 420
atgtttgcga act 433

<210> 18269
<211> 361
<212> DNA
<213> Glycine max

<400> 18269

agtttgcgc caccgagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagataaaa agatcatgag 120
gaagcgggtat gtgccgggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180
ccaaggcaac aaggggggtg aggagtattt caaggaaatg gatgtgctca tgattcaagc 240
aaatattgaa gaagatgagg aggtaactat ggctcgattt cttaatgggtt tgactaatga 300
tatccgtgat attgttgagc tgcaggagtt tgttgaaatg gattatttgc ttcacaaagc 360
aatccaagtg gagcaacaat t 381

<210> 18270
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18270

tctgtgaat gtccacgctc tntcccttaa tacttgtatt actacgctcc catatttctc 60
tgtatacata tattctcaat ttaatgtatg tgtcatgtgt gtatacacgc tatgctctag 120
ctatctagtc aaatgtaatt gtatccatga ccatatatac acattaaaaa gaagataaaa 180
catatttttt tctcgtatat ttctgttcaa acttaatggt aatttttgta ttaaataagg 240
gaaatgtaag agactaaata cacttgattg ttttaataaa gtatagagat taattagaag 300
tacaaggatt aaaaatataa tttatcttta tgacaaacaa ctgaaaatca atatgagatt 360
taaattaatt aattatatat tatttcag 389

<210> 18271

<211> 425
 <212> DNA
 <213> Glycine max

<400> 18271

actcagctta tagtgcaccc ttccagaaga aatgttcttt attgatcact cctactgatc 60
 aagtcatttt caagaaactt tgcattcctt gattccacaa tcttagtggt gtgggatgga 120
 caatagaacc tataacccttt agacccttca gcatatccaa tgaaatacc cagtaatttc 180
 ttagggctta gtttcttctc ttgtggatta taaattctta cttcagacag acatccccaa 240
 atgcgtatat gtcgcaaact tggtttccaa ccttgaata gctcaaaagg tgtctttgag 300
 acaatcttgg ttggaactcg gtttaataa tacgcaaccg tcttaagagc atcaatccaa 360
 aaaaattgag gaagctttac attactcctt atgcttctca ccatgtctaa taagggtcga 420
 ttctt 425

<210> 18272
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18272

cattatcttc atcatgaatg aaagcaatgc atcattcatt gtgatttaaa gtcattgcaat 60
 gtccttcttg atgatgacat gactgctcat gtgagcaatt ttggcatagc aagacttatt 120
 tcaatcatca atgcctacca cttctaagca aacaattaca attggaataa aggggactgt 180
 tggctatgct cctccgggta tgttctaaaa tctaaactgg tgaatgaatc agnntttctt 240
 tgaatcccct atttttttat aaacacttta tatttactaa atacaaagta ttga 294

<210> 18273
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18273

gtcgtgatat tgaaatgggc ataacccttc acacgtatgt ttgatttatg cgcattatat 60
 atagagacgc tcgaaattga tcaccggaag ctctcgacaa attgactggg acataactta 120

tcacaccgag gtccgatata tgaacatccc atatcgatac gctcgatatt gaacaaccga 180
agctgtcgtg aaccggaaat ggtcataacc cttcacacgg atgtacgatt catgcgcac 240
agatatggag atgcctgata ctgaacaacg gaggctctcg agacactaac attgtcataa 300
ctttccactc ggatgtgcta ttctagcaca ttacatatgg agacgctcga aattgaagca 360
cggaagcgta tcgagaaatt gaaatggta taacttttca ctgggatgtc cgattcangc 420
acatcatata ttgagatgcc c 441

<210> 18274
<211> 315
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18274

agttttgaat tghgtgtcgn tgtcagtgac aatggcgtat gggaggccgt acctgcatat 60
gaggtgcttc caagtgaatt tttccacctc gttggtcgta atttcaccat tggctcttct 120
tctatccact tagtaaaata gttgatggca actagtaagt acttgacagc tcctagagcc 180
tttggcagtg gtcccagtat gttctttccc cacctgngga agggtaaagt ggagctaaga 240
ctgtgaaggt tgtcaggagg agtgtgtggc acgtctgcaa actcttgaca tcgtctgcat 300
ctcctagtaa agtcg 315

<210> 18275
<211> 382
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18275

tccttaagaa gattcgtaaa gaagctagag cttagctaca catacctctc taatagctaa 60
gtcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaagc 120
tcacccccat gacaaaaaac atgaaaataa aaaaaaagtc cttattacaa agacaactca 180
aatgccccg aaatacaagg ctaaaaccct atactactag aatggccaaa atacaaggcc 240
ttgacgaagg aaaaacctat tctaataatt acaaagataa gcgggctcat acttagccca 300
tgggctcgaa atctacccta aggctcatga gaatcctang gtctttcctt ggatctctag 360

cccaatctac ttgagtcttc ta

382

<210> 18276
<211> 360
<212> DNA
<213> Glycine max

<400> 18276

ggatgtgtac gattgtaaca attgttcttg aaatgcgcga tactgtgttg cttttataga 60

ctctacatgt ctggtaaga acaccatatt aagagttaca acctttagaa aaacttgaaa 120

accattggaa gaggtacatc tttggatgtt aattcaaaac ttatcactgg taatcgacta 180

ccaaatcatt gttgatagtg cttatctcta ctgagtttat aaaagattgg cttaaagtttt 240

gttaaaacat aggcacttag actatgaatg aaagctggag ttgcttgtca tgatgtgcaa 300

cgttatgtct aaaaataaga tcgggctgca caatgcacac tgcattacga aatgtcaaat 360

<210> 18277
<211> 370
<212> DNA
<213> Glycine max

<400> 18277

agcttttgac ggactatacc ttgctctagg aaccagggac ggagaaagat ctatatatag 60

gcttgctaag ggtagagaga ggaagactag agatttggat caagtaaagt gtgttaagga 120

tgaagaaggc aaagtcttag tgcataaaaa agatatcaag gaaaggtgga aggcgtatatt 180

ccacaactta tttaatgatg gatatggata tgactctagc agtctagaca caagagaaga 240

ggaccggaac tataagtact atcgtcggat tcagaaacag gaagtaaagg aagcgttgaa 300

aagaatgagt aatggtaagg cgggtggggcc agacaacata cctattgaag tgtggaaaac 360

tcttgagat 370

<210> 18278
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18278

cagcttctgt tgttcaattt cgagcgtctg gatataattat gtctcaaatt cttacatccg 60

tgtgaaaagt tatgaccatt agaatttctc gagagcttcc gttgttcaat ttcaagagtc 120
tagatgagtt atgtacgca atcgaacatc tgtgtgaaaa gttatgacca ttcaaatac 180
ttgagtgcctt ccgttgtgca atttcgagca tcttgatata ttatgtocca aatttggaca 240
ttcgtgtgaa aagttatgac cattcgaatt tctcgagagc ttccattggt gaatttcgag 300
agtcctagatg agttatgtac gcgaatcga catccgtgtg aaaagctatg accatccaaa 360
tatcttgagt gcttacgttg tgcaatttcg agcgtctcga tatattatgt gccanattgc 420
gacatccgtg tgaaa 435

<210> 18279
<211> 394
<212> DNA
<213> Glycine max

<400> 18279
tgtgcatcca atacctgat atgatgtttt catatgtttt taaaaccgga ctgattcatt 60
tgcttccaaa gtttcatggc cttgcaggtg aagaccgca caaacattcg aaagaatttc 120
acattgtctg ctccaccatg aaacccccag atgtccaaga ggatcacata tttctgaagg 180
cttttcctca ttcattagag ggagtggcca aggactggct gtattacctt gctccaaggt 240
ccatcacgag ctgggatgac cttaagagag tattcttaga gaaatttttc cctgcttcca 300
ggaccacagc catcaagaag gatattctcat gtattagaca actcagtgga gagagcctgt 360
atgagtactg ggagagattt aagaaactat gtgc 394

<210> 18280
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18280
agctttgtat gtgttcaagc atatagcaaa tccatctat atatctgcaa aatcatntc 60
aggatctgat aacttcttat cagacgttag ttcattcattg aatttaacat ggatggattc 120
ttctacaact aaagttcttg tactaaaaac ttatatgctt tagatgtatt agataaacca 180
agaaaaatcc ctttgtccac tttggaatca aacttagcaa gttgatcttt agtgttcattg 240

ataaagcact cacatccaaa tggatgagag tatgaaatat tgggtcttct tctctctat 300
 ggatcatacg gagacttttt tatcaatggg ctgatcaata ttctattcta aacatagcaa 360
 gttgtattta ctacttctgc tcaaagtact t 391

<210> 18281
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 18281

tcatgagaaa gtaaaagatc aaattgagag gaaaaatatt tgttatgtta aacaagccaa 60
 cgaaggggaga aagaaagttg tcttcgaacc cggagattgg gtttgggtgc acatgagaaa 120
 agaaagggttt tcggaacaaa ggaaatcaaa gcttcaacca aggggagatg gaccatttca 180
 agtgcttgaa ataatcaatg acaataatta caaagttgag ctaccgggtg agtataatgt 240
 tagttccacc ttcaatgtat ctgacttata tctttttgat gcaaatggag aatccgattt 300
 gaggacaaat ccttctcaag agggagagaa tgatgaggac atgaccaaga gcaagggcaa 360
 ggatccactt gaaggacttg gaggacctat gacaaggctt agagcaagga aagcaaagga 420
 agctcttc 428

<210> 18282
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18282

tcaagaatta tggcctcatt ttactacctg tttcccgatg gaaatnctat aaatagacct 60
 cccatcttta atggagtggg ttatcactac tggaaaaccc gcatgcaaat ctttatagag 120
 gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180
 gctgcaagtg caacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240
 gtacaatata atttaaaggc caaaaatatt attacatctg ctttaggaat agatgaatac 300
 tttagggttt caaattgtaa aagtgctaag gatatgtggg atacactaca agtaacacat 360
 gaaggcacia cagatgttaa aagatctatg ataaacactt taactcgtga atatg 415

<210> 18283
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 18283

gtgatgggtgt cgagaagtat tcacatgttt gtcacatctt taaaggggga gaatgtgaat 60
 gtaigtatata atgattttga tgaigtcaaa agaaaaatca aacaaagtty cttcaaaaga 120
 taagcatggc ttcaagatta atacaagatt gcttcaacaa acaaagtctt gcttaaagat 180
 taactcaaga tcaagccttg ccttaaaaca aagtgttttc aagacattca aggcctctgg 240
 aatcgattac caggcagtgt aatcgattac cagaagacag ggttgagaaa tagctgttga 300
 aaagggtttt ggaattgaat tttcaagatg taatcgatta ccatatgtct gtaatcgatt 360
 accagcaacg aaactcctga gattcacatt caaaagtcac gacccttc 408

<210> 18284
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 18284

tccttcaatt ctggaatcaa ttgccatttc agttgagata tagccatcat aattgatttg 60
 gaaagagagt cagcaactac attctctttt cctggcttgt actcaattgt gaaatcataa 120
 ccogtcaact tatgtatcta gttctgttgc tcaagagtgt gcacaacttg attatttagt 180
 gatctgaggc tcttttgatc agtcctaagt gtaaatttgt gaccaagtag gtagtgctta 240
 aatttagcta tggttgtcgt aatagcaaag aattcccttg catatgctaa tttttttttg 300
 cattctcgca ttcaattttt ttgaaaaata agcaatagga tgggtgcattt ggctcataat 360
 agcagctaga ccaattccag aagcatccgt ttctaagggtg aatgggtgtg aaaattatgg 420
 taaagcca 428

<210> 18285
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 18285

agcttgtatt gatttgggtct gatgagggat cgaggcttag taatttaggc tacaacatat 60

aacacatgag aaattgatta gagaaatata ttgagacaca caatttcgtg ctctttctct 120
 cctctccct ccactcatct tctccttctt tcaagctctt atccatggct tcttatgggt 180
 gtgagcttct tcttgactca tcttctgctt gaagtggcat ctccaatcat atttctttct 240
 tctgtattcc actgccatta aactaccaga agccaaagac tccattgatg aaaaagatcc 300
 aggcctacaa gctccacatg gaagttacat catgtggat caagagcatc ttcggctaag 360
 tgatgggtctt ttgctt 376

<210> 18286
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18286

agcttttaac gtatattgag aaaggatttt ctactttaaa gaaaatagtg atttgtggga 60
 tcttttagtt aaggtatgtg acttttttta caaaactgat atcaaataaa aaattatata 120
 agtttttcta aaaatggtaa taaaaaatta aaaactataa aattttaaag gataaagtga 180
 ttgctcatta aagaatttgg tctagacagc agaatgacat gattgctcat taaagaattt 240
 ggaaacagaa atatcattcc tccccttag aatttttaat ttatcattaa aaaataaata 300
 aagatagact cttggaataa agtaattntt tcagataaaa aaattactaa tgactntaca 360
 agaatttaac caactactaa tatgaaattc t 391

<210> 18287
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 18287

agcttttgtc cctgagaaac tggttccag aagacaacag ggagtgaaga ttgctgaaaa 60
 ccctagcctt gcaacaagtt ctagggaagt agacaaggag atggacaaga aaatccgcag 120
 tatcgtgagt agcattttga aagacgcctc tgttcctgat gctggtgaag atgttccaac 180
 atcttccacc ccgaatgttt ctgtgccgga tgttgagaaa gatgttccaa catcttccgg 240
 gccaaatgct gaagtactct cttccccag caaagagaga tcaacagagg aagatgatca 300

agcgacaaag gagacccctg caccaagggc acca

334

<210> 18288
<211> 417
<212> DNA
<213> Glycine max

<400> 18288

tcaacatcag accacttcca ggggtgctggt actacttttc tggacttgat ggggcctatg 60
caagttgaaa gccttggagg aaagaggtat gcctatgttg ttgtggatga tttctccaga 120
tttacctggg tcaactttat cagagagaaa tcagacacct ttgaatattc aaagagttga 180
gtctaagact tcaaagagaa aaagactgtg tcatcaagag aattaggagt gaccatggca 240
gagagtttga aaacagcaag tttactgaat tctgcacatc tgaaggcatt actcatgagt 300
tctctgcagc catcacacca caacaaaatg gcatagttga aaggaaaaat aggactttgc 360
aagaagctgc tagggctcatg cttcatgcc aagaacttcc ctataatctc tgggctg 417

<210> 18289
<211> 432
<212> DNA
<213> Glycine max

<400> 18289

cttctcttca tcctttgcca tatggaaaat agacattttt ttatcacctc taaaggttct 60
aggagcagta aaatacttac tagttgttat caactacttc aacaagtgga ttgaaacaag 120
accactgcgg gaaattatgg ccaatgaggt ggagaaattc acccggaac atctcatttg 180
taggtacgac ctaccatgcy ccattgtcat ggacaacaac actcaattca aagctcagac 240
ttacaaagaa ttctgacat gactacgcat caagcaccaa gtcattctct tcgaacatac 300
tcagaccaac ggtcagacaa gggcagctaa cagagtcac ctcaggttcc tgtgtactac 360
actcaacaag tctaagtgtc tatagaaaaga taagttcttc agtatactct gggcgtagca 420
ttgttcaccc aa 432

<210> 18290
<211> 429
<212> DNA
<213> Glycine max

<400> 18290

taagctcttt caactgcaca aggtctctta tatttgaata gtatccttgt ggaaccttca 60
cccgacgaag acactaaca aaacttatct tctccttctt ggacaaagta tggcaggctg 120
ggggcaagta aattttcttc ccatcagacc ttgtatgcaa ctgtgatcgt ataccatat 180
cagctagatc ttgacgggta ttcaagccat ccttcgctt gccctgaatg ttaaggagcg 240
tcccaatgac tctatcacag acatttttct ccacatgcat aacatcaata caatgtctaa 300
cgtcaagatc acaccaatac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360
tttgactttt atccttcttt tgggtcttcc caaatacagt attcagggtg tcaaccgct 420
aatatacct 429

<210> 18291

<211> 394

<212> DNA

<213> Glycine max

<400> 18291

agcttgtctt catttggtat ttattcacc cagtcttgtg gctctacaca aggggtgtctg 60
caaccttcta aaatagtatc tccttcatcc tattaaaatc aaaatgacaa tgttaaagtc 120
tattcgtaaa aagatccctc caacaaaaac aagggataaa cagagaagga aggtaaatgc 180
gagaagaaaa gaatgtagta attgtgaaaa caacaaatta agtaccaatg aagtgatgtc 240
aggccttgtg tagggagtag gacaactaga agccaaatca gcaaatctca actatagatt 300
cctatccatg tacattcttt aaaaaaaatt catgggttagt ggggctctac taaatgttgt 360
catgacaaga gtatattcat tagacatcaa atg 394

<210> 18292

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18292

ntntgactcc tgagtatttg gaacttgctt tatctctttt tcttttagcat catcaaaata 60
atcttggaag tcattgcttc cacaaaatga ccaagaagtg gcctatgctt ctagacaact 120
caagactcat gagaggaatt atccactca tgacctggag ttagctgttg tagtttttgc 180

ccttaagatg tggaggcatt acctgtttgg ctccaagatt gaggtgttta gtgatcataa 240
gagccttaag tacttgttta gtcagaaaga gttgaacatg cgtcaaagga gatggtttga 300
gtttcttaaa gattatgatt ttgagcttag ctgccatccc ggcaaagcca atgtagtggc 360
tgatgccttg agtaggaaat ctctacatat atctgccttg atgattagag agatggatct 420

<210> 18293
<211> 265
<212> DNA
<213> Glycine max

<400> 18293

tctagcttta ctatgcaaag aatatccaag gaaaattcct tcattctgact tagcatcaaa 60
ctttcctaag ttttcttttc cattgtttta taaaaaacac ttgcaaccaa aaacatgaag 120
atgcgagatg tttggtttcc taccattgaa tagttcatat gaagttttct ttaaaatggg 180
tcttattaaa gccctattca tgatatagca tgcagtatta atggcttcag cccaaaaata 240
ttttggaaga ggagtatcat ttaat 265

<210> 18294
<211> 357
<212> DNA
<213> Glycine max

<400> 18294

agcttttttag ttttcaagt ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60
caattcatca gtgggcttcc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
gacagcttcc caggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180
gtattcatag ttgcttccat caagaattgg tggctgtgtc actggtcctc cttctttctc 240
catgttcata agaatttatc tcccagatc tcactctgtg atttcgagtg ttggctctga 300
taccaattga aattctgata ccaggggaca gatgtcgtac aggatgtcac gacatca 357

<210> 18295
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18295

ntatatacaa attaaaaaat tattaatatag ccacaagtct agaaaaatat aattacattt 60
gattaattta tcttttttatt ttattgatat tatctcttct tttactttat agagatgtca 120
aaaaactaaa taaattaaaa gtggacaact aataataatt agtgtctttt tcaattgaga 180
aggggtcaaaa tacactttcc aataactaac tatctatcaa tctctatgtg ttttaatttt 240
attaatcaaa tagctgaatt aaaagttttt attaaataaa tgaggtttat aattacttcg 300
ttaaaaaatt tcatctaattg taaaatgtat ttcttaaaaa tataagtaaa agttgattat 360
agaactacat atatacaaat attaaattta tttaaaattt aatatatcga tt 412

<210> 18296

<211> 337

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18296

agctttttatc caactgtaaa acttggcaat aacactagaa tggctgttgt gggaaaatgt 60
atcattcgaa tgcaagtga tggatttact caggcaattt ctggtgtcta ttatgttcct 120
gaacttaaga gtaatttatt gagcataggg aaacttcaag aaaaaggctt gactattttg 180
attcaacatg ggaagtgtag ggtatatcat tntgcaaaag gattaattat gcagacagat 240
atgagtggaa atataatgtt ttctttgttg gctaccatga taccaaaagc tttctcatgt 300
ttccaaattg tatcagaaaa tgaatctcat ctttggc 337

<210> 18297

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18297

nttactctct ggtaatcgat taccagagga tgtaattgtt taccagtggc caaatcgtt 60
ttataacagc tataaaaatt tgaattcgaa attttaaaag ctgtaatcga ttacacaatt 120
gtggtaatcg attaccagca gttagtaaac gttttaattc aaattttaaa agctgtaatc 180
gattacacaa tttctgtaat cgattaccag acaggaattt cagaaaaata atttcaagag 240

tcacaacttt tcaaaggctt tactcatgac caccaatggt ctatatatat gtgacttaaa 300
cacgaaattg ctgagagatt ttcagaacaa caaagtgttt atcctctcaa aaagcaattt 360
cattttatcc tcttaaagaa ttccttggcc aattcaattg caattcatta aggaattaat 420
tgagt 425

<210> 18298
<211> 422
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18298

ntggtacctt gtactgtaca tataagactt tgattcttat ttaaagttaa aaataatgat 60
ttccaatatg aaggaattta gtaccgttag ttattatgat tattcttagt atttttttgt 120
ttcaaaataa ttatcatcct tcattatatt atataaaaaa tattgcataa ataaaataga 180
ataataattt taaaaatta aacttatatc attattaata tataaagaat ataaataaaa 240
gaagtaatta atgttacatt acaaattaaa atattaaaat gataattatt ttaagataat 300
taagatatta aaatgataat tatattaaag ttgagctaaa acagttattt tcattttttt 360
tctcaacata aatatgttta acatagataa ttttttactt ttaaggtttt agagcatcct 420
cg 422

<210> 18299
<211> 347
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18299

agcttatcac cactctcctt cataccactg gccacaccac caacaacttc agcttcgtga 60
atctcacttg cgactcccaa tttggcgtea tctcgatcct cttccccgca ccgtactctc 120
cctctaattg caccatcctc ttcttcataa agaagcgtga tggcactaga aaaccactga 180
gcgccactac gctgaacttt ctctcatcg gtagggacac atcgttggtg gcgctaagct 240
ggttcttctg actcttcatg aaccacccca tcgtggaaga aaagatcctc gcagagctaa 300
cgttggtgct tacttncact catggcggcg accgacgaca ctggatg 347

<210> 18300
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 18300

tgtaaccca tggagctcc taatatchcc taactttcgg ggggtgtcca ttcttcaatg 60
 gcgttgattt tctcagggtc cacttggacc ccatttctac aaactacaaa cctaagaaa 120
 actatattat ctacacaaag ggtacaattc tctatatttt catagagggt gtttttccta 180
 aggactgaaa gaacttgcct gagatgtcct aagtgatcat ctaggtcct actgtacact 240
 aaaatatcat caaaataaac aactacaaat atacttatga aatcccttaa gacatgatgc 300
 ataagcctca taaagggtgt cgggtgcatta gtgagcccaa caggcattac tagccattca 360
 taaaaccaa acttggcttt gaaagcgggt attcactcat caccctcttt catcctgatt 420
 aggtga 426

<210> 18301
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 18301

tgacaaacaa agctaatacga agcaagtaat atataaaatc tattattttc acaaaatcaa 60
 tagtgcaaaa ggcatttgaa atggtaatat cttttaatat tttatattca ttttcttata 120
 agttatataa taataactca ttttttattt tgtgattgct tttatatgat atatgaaagg 180
 ttggcgaaat ttataaaggc atcatgcatt gcattatatt atttaatttg ctctttacta 240
 tatttaattt taacagacaa aagatccaat atctagttaa tgatcagatg ctgcggaagt 300
 ttggaaggcc acacacacga gatctaattg aacctgtgca tt 342

<210> 18302
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 18302

taaaagtatc actttgttta tcaaatttat ttaatgtgta tgtcaacctt cctgtaaaaa 60

catgctccct cactccaaga atgcttggag ggcgaaggcc atgattcgca tggaactcct 120
ccagaagatt cctcattttc attgcttctt caagataatt gtcctttcaa aatttaaaaa 180
atatatatca gattaaatta cataaatttt ctttcccat tcatcattc actcacatac 240
atacagttga gggcagagga agagggattt ctctacaaaa ggctgggtgaa ccacatatta 300
atccaagggtc aataagtatg caacagtcca aatgacatgt aaaaqfqaas ttcaaggatt 360
tggaagaact gaacaagrac aacaggataa aaatctcact aatgccatga ccgcaacagg 420
att 423

<210> 18303
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18303

tgcaatgaan attaacataa caatgtatth ataaagtttc gacaaattaa tacaaaaatg 60
ataaataatt cttaataataa aattgacatc attttgggtcc aagttaaattg ctttttggtta 120
gttattatat gaggcaaggc ttatgttttc atcttcctaa catgtaaaat taacatcatt 180
ttttaacatt ctttttgata aaattgtata tagtcattgt tgtacaaatt atttgcattt 240
atgtttcaaa tttgtactta ggcattggatc gtaagattac aaatctattc tttcatactc 300
gaaacgttct ttcaatagtg caccttaaac ttaaactgga gtgataataa ttaaaaaattt 360
cattattatt tgcaaaactca gatctatgtc taaaattagg aagggtggtta cgtttacata 420
tgtaagga 428

<210> 18304
<211> 380
<212> DNA
<213> Glycine max
<400> 18304

agtactctca ttttttatca agtctgcacg attgtgatca agatcaaaag ctgcgcaaaa 60
ttcaggccag ttacatagaa gtcgaccaga tcttacaggg gtgttctcca caacaacttg 120
ggcgggagca ggaatgcctg cattctgcaa accaactgca ttgctgtcag gatcaactga 180
atttgaaaat tcagatcctg gagcttcatt tgagtttgtt gataccgcaa tagctgaatc 240

cacaaaagtt gaatgcccatt tttgaacttc tctgtagaa gatccattgt tcaaattttc 300
 actagtgtga acaactgatg attgaatatt tgaagcctgt ccagaacctg ggtccataac 360
 agttttatga tagctgtctg 380

<210> 18305
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18305

tcaagctttt ttaataagat ggctcagca aattccttat ttccagatag gaattctatc 60
 aatagacctc caatcttttaa tggagagggg taccactact ggaaaacccg aatgcaaatt 120
 tttatcgagg caatagatct aaatatctgg gaagccatag aaatagggcc ttatatacc 180
 accacagtag aaagagtttc aatagatggg agttcatcaa gtgaaagcat aaccatagaa 240
 aaacctagag ataaatgggc tgaagaggat agaaaacgag tacaatacaa cttataagcc 300
 aaaaacataa taacatatgc cctacgaatg gatgaatatt tcacgggttc aaattgtaag 360
 agtgctaagg aaatgtggga cactc 385

<210> 18306
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 18306

tttcaagaga cctactcttt ttgactgttt tcaagagttg gtcttcttgg ttgaacactg 60
 aacacaaggg accaatgttc cttgggttca ttgcaagaag caggatttgc ttcttggttg 120
 atcattagac gcaaaagacc aatgtctttt gggttcattg caagaagtgg gtataatttc 180
 ttgggtgtta tcaactggaca caagggacca actttccttg gggttcattg caagaagtgg 240
 gaataacttc ttggttgaaa tcaactgaaca caaaggaggg aagtccttgg tgggttcattg 300
 cttgcaaagg attttacaag gttagtggaa atctcaagcg aattgcttga ggactggacg 360
 tatgcacggg ttgtggtcga actagtataa atccggatat gcattctctc tt 412

<210> 18307
 <211> 366

<212> DNA
<213> Glycine max

<400> 18307

agcttggttag ttttttaggc tttgagtctt aacttatcca gctcattcaa ttgttgctac 60
ctgttgctac ctacaagcct aagatcaaag tttagaaact atagagccca catggctttg 120
tgaacaagtt caacaagcct atggaaattc tttccataaa ctagaactaa gggagacatc 180
acagtgggag tcttaaaggt ttttttgat gccagagtg tgtcatcaa tttcaatgac 240
caattctttc tagatgctct cacagttttc tgtaagacct tctttagtta cctattagat 300
acctcaactt aaccaattgc ttgagggta taaagagtaa taaccttatg ggtaacacca 360
tattta 366

<210> 18308
<211> 427
<212> DNA
<213> Glycine max

<400> 18308

atgcagccca atccttcctt taagtaggta cggcgctttc tagtactttc ttgatctccc 60
tagtctaaac tccaactttt ccatttgttt acggatgata aggtgatgct actttgtgtc 120
aaacatcata gtgttgaaag acctttgaga attgagcaat acaaaagtgt gtaccttcat 180
cactaatcaa gagtctaggc aatcaaaacc taacaaaaat gtttctcttt aagatattaa 240
tcatcatctt tacatcattg gttggactag aaatttcttc caccactttt aagacatagt 300
gcactactac caagatatat ctgttgccac gtgaggatgg taagggacca aaaaaatcaa 360
ttccctaaca atcaaacact tctacctcct gcatgttctg taatggcatt tcatgtctgc 420
tagatat 427

<210> 18309
<211> 293
<212> DNA
<213> Glycine max

<400> 18309

ttgcatgtta gcttctgatc caaccagca cggtttcgat gcccgacct gctggatcgg 60
agtcgaagc aagaagccga tgcaactgca tgatggagtt aaccgccacg gcttcgttcg 120

gattcacctg cagcatccac ggcttcacgt cttcaaggcg ccacgccgcc acgccacgaa 180
atgcaaacct aacattcacg gaccgcgcca gctcagcgag cctgagccca atttcgcgga 240
gcgtgtcgcg gttgtcggac gagggaagcc caattcccggt gagcctcaac agc 293

<210> 18310
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18310

tattctatgg gatttaccaa gcacacaatt atcacatttt tcaagtttat ctagtattat 60
accacctagc atattttggt tctcaagttc atgcaatcct ctttcactaa catgacctaa 120
tctcaaatgc caaagttttg ttttatcaat caatgtatta ctagtaccg atgcatttcc 180
aacaatcgtg gaaccttcaa gaataagcaa gccattactt ttattcttgt cacccttggc 240
aatgattaaa gatccatttg aaatcttaag aacaccattt aaaattctag ttgaatatcc 300
tagatcatca cacatgttta tgaaaataag atttcttttg agttctggaa tgtaccttac 360
attnttcagt agatactctc tattatcaaa catcttcaat ctacag 407

<210> 18311
<211> 381
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18311

agctttatta attagatggc ctacagcaat tccttatttc cagaagggaa ttctatcaat 60
agacctcaa tctttaatgg agagggttac cactactgga aaaccggaat gcaaattttt 120
attgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
atagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
cctatagata gatgggtctga agaggataga anacgagtac aatacaactt aaaagccaaa 300
aacataataa catctgccct gggaatggat gaatatttca nggtatcaaa tcgtaagagt 360
gctaangaga tgtgggacac t 381

<210> 18312
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18312

acclagaglc caageatggt gtttatcttl cccatcatag acatcgggag attctatc 60
 catacaactt gaaaattcct tacacaaagt ttcattagta gaactaaata taatattatc 120
 aacatatatt tgaacaatta acaactcatt ggttactttc ttaataaaca atgtttaatc 180
 aacttgggtct ctagtgaaag attgctcaag tagaaaactg ctcaatctat caaaccatga 240
 ccttgggttct tctttcaaac catacttttt cagtctatag acatgggttag gatgctagta 300
 gtccacanaa cctggtggat gatctacata aacttcttct tcaatgagac cattaaagaa 360
 gatacacttc acatccacct gagtaagtct aacatccatg atacatgcac atgcaagcag 420
 caatcttatg tgatgtagct catg 444

<210> 18313
 <211> 463
 <212> DNA
 <213> Glycine max

<400> 18313

tcgctctttg tgggagtcac tatcaaaact gaagcctttc ttatttgcac atgtggagca 60
 attaaacctt ggcgcaatct tgaacaaatg gagtatgcta tgcagttctt gatgggggtg 120
 aacgaatcct tctctactat tagaggtcaa attttatcca tggatccctt ttcctcagta 180
 actaatgttc tttccttagt tcaagaagaa aagcaaaagg aagttgggtgc ttcctcctct 240
 gctagtgaag tttcacatgc ttttgccctg aagccttctt ctgctgcacg caatcatcct 300
 accaatcgct tcaaaggatc ttccaagaat cgtcccttgt gtgctcattg cggtatgctg 360
 gatcatactc aggatcggtg cttcaagttg catggctatc ctccaaatta taagaggact 420
 agttgttctt cacaagtcaa gatacattct tcatcttctg aat 463

<210> 18314
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18314

tagtctgtga tgggaaaatc aatgggtcaat attccatctc attcataagn tgttatgcat 60
taacatataa tatcgattca tcgttatgga ttatatatga ttacttattt cacatatact 120
taattataga gagggagaga ttaaattggat acctttgagt ggtatgagac ctttatcaaa 180
aagagaaCgy taglyCaaa tagaCaltad ygCaCaadga ctgaCCggtg aaaaCagagC 240
aataggaagt gaaagttctt cagcagcttg tatagtaaaa agcatggaac aatcagacac 300
caagcaagta actggaggta caaagccagc agtgggaagaa tcttgaagac gagcaagaag 360
atcgcgaaag ggtacgagca tcttctctct cactgannta gcaagagaca ctgcgtcttc 420
agtgacatca ccatcaccat atgtgggggg aagactatct ggtatgg 467

<210> 18315
<211> 457
<212> DNA
<213> Glycine max

<400> 18315
tatcttgatt gaatgtagca gcaaacttga cgatatttct aatttttcat ttctgcaaag 60
gactcatcca gctttgacat tatagtgttt gtcttattgc cattaaatct tacaggaatg 120
tccttttcca taatcaaggt tttagagtta tacactctat atgccttgga taattgagag 180
tatccaagta agattccata atcacatttg gagtcaaact cttcaaagtt atccttggtg 240
ttcaaaatga aacgttgaca tccaaatggg tggaaataag aaatattagg cttacgttcc 300
tttcacaatt aatagggagt cttctttaag attgacctaa tatagactct gttatgtaaa 360
aaacaaacag tgtgatcgag gccgtaccg aatcatataa acatgataat gcagtaacta 420
ggaagtgatc ctatgtcgtt tcccaacgag cagtgc 457

<210> 18316
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18316

ttcactcgga tgtccgattc angcgcataa tatatcttat atgttttata attgaacaat 60

ggaagctctt gagcaattca aatgggtcata acttttctact aagatgtccg attcaggcac 120
 ataatatatc gagacgttcg aaattaaaca atggaagctc ttgagcaatt ccaatgatca 180
 taacttttct ctaggatgtc cgattcaggc gcataatata tcgagacgtt cgaaattgaa 240
 caatgaaaga tcttgagcaa ttcaaattgt cataactttt cactcggatg tccgattcag 300
 ggcataaata tatcgagacg ttcgaaattc aagaatggaa gctgtcgaga aattcaaattg 360
 atcataactt ttcactagga tgtccgattc aggcacataa tataatctaga cgttcgaaat 420
 tgaacaacgg aagctcttga gcaattcaca tgatcataac ttttcacttg 470

<210> 18317
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18317

acctgtgcag caaagtcaaa ctgcttctac agaaactaaa agccttggag aattctatgc 60
 cagctcaacc ttctgaacaa caagtcaagg agctcaagaa aaccaagct gacctttggg 120
 aaaaagctac tatgcatgag tctattgtga ggcaaaaatc aagatgcaga tggatcaaag 180
 aggggggacag caacacagcc tattttcata gagttattaa tttgaggagg aggagaaatg 240
 ctttgagggg gatgcagata ggtgacacct gngtggaaaa tectaactt atcaaggctg 300
 aaaacctgca ccattttcac aacacggta atgacactca ctcgagctga cctaacctgg 360
 atgggggttg atttaaaaact ctgact 386

<210> 18318
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18318

tgagaattgg attgacctgt gctaagttgc caaatattta cagagttagg cacagtatta 60
 ttacaatcaa cagaagaaac agtatttata caagctggag aagacacagc agagcagaac 120
 tgaagattgg gaaactggta caagccatca gatccaacat ctccctgaag aaggattctt 180
 ttggaatcct gatatttaac aaagcaacga ttagcatgaa actcaaagaa aacatgatta 240

tctttggcaa atttgcttac actaattaga ttcttagtga tttgaggaac aagaagcatg 300
 tttttaagaa taagttggcc attaggactg aaaggagaaa caaaattgga attaccaggg 360
 gctgagatat tcagaccttg tccgttacca atnttgatct gatctggacc ctcaaattgga 420
 caag 424

<210> 18319
 <211> 188
 <212> DNA
 <213> Glycine max

<400> 18319

ggggccatga catgctaatt gacccaaagg agggatttgt accgatgacg ttgatcatgt 60
 acgttctatc attagtagac tccaccacat agttactccc aataccaaaa ttatttaatg 120
 ttaaccagat gacccaacca .atacatactg gcaataccat gactactatg tggcatgata 180
 atagcttc 188

<210> 18320
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 18320

tgtaacatga ctgcttttct tatatataat caccaaacia aagattgcc aagtatctc 60
 ccaccaaccc cgaagatcaa atctcactat cctccggtt caaaatacat gtccattttt 120
 gaaaaattgc ggtaaccaag gacaggctaa tttgacacia aagttcctat tttaccctag 180
 tcctttatgt tctccattat atattttatt atcccacctc ataattactc ccaataccaa 240
 aattaattaa agttaatcaa attacaatac caatacatac tggcaatacc aatactacta 300
 aatggcacta tttttgcttc ggtattgaaa agtcaattg gcatagtctg gttatcatag 360
 tttgttaaaa ctcaattgaa ataacttccc tccattatta attatactct aatcttacia 420
 tgttgtggac a 431

<210> 18321
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 18321

tacatagaag accgactgaa ccatgagatc cacttcaacc acacgctaac tttcctgac 60
tatccagcaa cagatacgac cctgcatgga ggatttactt tactctatta tggcacactc 120
ctcaagctca tcattcacag cctgcttcgt cctgacagca tgctgttggc cggctcatac 180
cattacatgta ctgcagcctt ccatctgcta ttacacctcg ccatagacc aatattcggg 240
ggactactc aaccttgcct gacctaacctg gagctgaaaa agactatgca catcatgcct 300
tccaacgaga gacctatcct gcattc 326

<210> 18322

<211> 440

<212> DNA

<213> Glycine max

<400> 18322

tcgagactga agagcgtgcg agtctttatc tgtgggaggg agaagagaac aatccaaaat 60
caattgtacc cttcaagtag cgaagaattc tgtttgcggc tgttagatga ggagaggtag 120
gagcctccgt aaagcgacac acaacttcca ccgcatatag aatattcggc cttgtattgg 180
ttagatacct taaactcccc acaagactct tgaagaccat ggagtctacc ttctctcctt 240
catcaaactt tgataacttc aagccacctt ccataggtgt gttcacggga ttgcaatcaa 300
gcatactaaa tttcttcaac acttcttttg tgtagcttcc ttgtgagaca aagataccat 360
tctccatttg cttcacttcc attcccaagt tatatgacat gagtcccata tctatcatat 420
caaattcacg agacatggac 440

<210> 18323

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18323

catgcgaagt ggggtggaatt cctagagtta ttcccttatg ttatcaaaca taaaaaggga 60
aaaggtaata ttgtagccga tgctctttct cgggtgcatg cattactttc tatgcttgaa 120
acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga aacttttgga 180
gaaattttta aaaattgtga aattttttca gaaaatgggt tcttttagaca tgaaggcttt 240

cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt gcttgtttgt 300
gaagcacatg aaggagggtt taatggtgca tttnggtcc aaaagactct agaaacatta 360
caagaaacat tttattggcc tcatatgaca aaggatgtgc agaaattttg tgaacattgc 420
attgtatgta aaaaggcaaa gtct 444

<210> 18324
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18324

tataanaagt ataataaatt aaaaaaata aaatnaatac ttatattaat actatgtttg 60
catcaaatat tcaaataaac atttagatgt aatgataaaa ggggtgtgcat cttatttcaa 120
ggatcatagt tctactccta atttcttctt aaagcattct ttttaagtaag gcttattaac 180
atatgattaa ataataatattt aggggaattta atgggttaat tcatattcaa atattttcat 240
aaccattaat taattattaa tttcgacatt tattttaaca aagaaattat tatttttgaa 300
tattttaatt tgaaaaaata ttcttttgaa atattatttt atttacgtac tcaagtttgt 360
ttgaaatata tgattaggta atattattct atcgctattg acataattta cagaanatgt 420
tacaataaaa aagtgtgtga ggaatatatg aaatttgttt aa 462

<210> 18325
<211> 398
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18325

gtacttcggg cgtgtattat agagcaacac ggtagctgga tggattgttt gccattgatt 60
gagtttactt acaacaatag ctaccaagcc agtattggta tggctccttt tgaagcttta 120
tatggacgaa agtgcaaaac tcctatttgt tggtagcatg atggagaagc agtacttctt 180
ggaccgaaa tgctacaaca gattaacgaa caagtgaagt tgattcgaga gaagataaaa 240
gcatctcagg ataggtagaa gagctattat gatagaagga ggaaaccact agattttcag 300
gaaggagaac atgtngtttt gaaggtttct tccgtaaccg gngtcggaag agctctcaag 360

gctangaagt tgacacccaa gtatctaggt ccgtatca

398

<210> 18326

<211> 460

<212> DNA

<213> Glycine max

<400> 18326

taataaaatt tagttttgat gagaaattga ttattgttaa tgtaaaatta ttcccttaaa 60

caatctatat aaaacaagtc atgtcccatt tttttaacta tttatagaat ctatcaccac 120

ctccaaacta ccataaacat aaaaactagg gttacctttt gtgagtagag aggtgtgtct 180

attgtataaa acaatttaat tcaaacagtt caaagttatt atcagagtca accaaagaaa 240

atthttctatg actcttatct aaactatcat caaatacaag aaaagatggt ttacgttatg 300

acatttttca taattaaaag attaaaagtt gtcaccacat atatatagtg acaaactttg 360

gattgatcac ttatcatcac taatatgcaa gtcactgttg tattagtgat gaatatttta 420

gatgtcataa aaatatatat tgtgatggaa atgttgtcac 460

<210> 18327

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18327

tctgccctat tntcctataa atagggggag aagtgaattt gtttaaattgt tcagctctcc 60

tggtaatcgc agatcacttg aaattagtga aaaaaattgt ttccgtgaag aaaatccaag 120

ccgaggcatt tccataacgt ttccgtagcg tttccgtggg taatttcacg aagattttca 180

accgttcttt gacgttcttc gttcgttctt cgtcgttctt cggctctcaa ccggtaagtt 240

cccgaatcgc aacttttcaa ttcattctat gtaccattag tggctctcat ttgttatcca 300

tggcctctta tgggtggtgag cttcttctag actcatcttc tcttgaagt ggcgtctctt 360

ctctctcttc cttctccatt ccgctgccat tcacttctca agaagcaaag gaatccattg 420

atgaagaaga tcttaggcct acaagctcca atggagctta caacacg 467

<210> 18328

<211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18328

tagtaaagct aagcactaac aatctcccnc tttgtcatat tttgtctaaa acatacttag 60
 aacttccctg agcaggtacg agcagttatg caagtggyat cagcaacctc caitalcaga 120
 gtaatcaagc acagcgggaat ctgtagtcta gacaagttgc aagtcgtttc caggatgtca 180
 agacatctca catgacatct gctttctgct tctgtcccc ctgtctccat gcttactgca 240
 acatcttcta tcagctacta gtcttctcca ggatgtcaag acgtctcctg tgacatcagc 300
 tatctgctcc cctgtctcc atgtctttac tgcagcatct tetaatanct tccatcagtc 360
 atcatcagca gcagcagtct cccctcana atcgtataca tacaactccn cctcanaatc 420
 atgaatcatg catacatcgt atctactgc catacatcat acata 465

<210> 18329
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18329

agaacatgat gcccaaaagc acgtcgggta tattaccttn taatgcttcc catctaaggc 60
 caagttccat ggtggaccgt gccttcgacg gcacccgccg ggaggtgagg ggggagatcg 120
 acctcccagt acagataggg cctcacacct gccaggttac attccaagtg atggatatca 180
 agccgaccta caactatctt ttggggcgct catggatcca ctcagtggga taatacagcc 240
 aattacgctc tgctttcctt catggacggg ttctttggct acaatcagat aaagatggcg 300
 ccagaggata tggaaaagac caccttcgct accctgtggg ggatgttctg ctataaagtg 360
 atgtcgtttg ggctcaagaa cgccggggca acctatcagc gggctatgat ggctgagntc 420
 cagcatga tgcaccgaga aatcgaagtc tatgt 455

<210> 18330
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18330

ntaagagcaa ttcctttcct tnncttatta ttctcattat gttgatncaa nncattagt 60
tccatttcat gttcctgtaa ctttccaaat aaagtagcaa gagacatggt agatagatct 120
catgattcaa taatggttgt taccttgggt tgcattccc tacttaagca tctcaaaact 180
ttatigataa gatcttcatt tgaaaatatt tttcctaaag atgcaagatg attaattatg 240
tgtgtgaatc tcttttgcac gtcctgtttg ctttcatttg gattcattct aaataattca 300
tattcatgag ttaatgtatt taccctagat ctttttacat ttgttgtacc ttcattgtgt 360
acttgtcggg tatccacat atcttgtaca cttttacaat gtgataccct aaagtgttta 420
ttcattccta aaaca 435

<210> 18331
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18331

agtttaagga ggagtatggt tagtaacaca taattttaca tattttgatt ggtgggaggg 60
gttcgaattg gtctctatat taacagttct gtattttcct gtaggaattg agccctggac 120
ttttactcag aagttaggag atgctgtttt cattccagct ggttgtcctc accaagtcag 180
aaatctgaag gtaaagtgaac catacctggt gaatttggtt catatttatt gtaggcacaa 240
tatattgttt tcttagaagt gtaggcataa tagtatcttt ggctactacc tgaaattaag 300
cctatgtcct tcattagcaa agcaagcctt tgtagaaagt gaaaactggt gattcatcta 360
naagtttcag ttcacttggt tattntttta cacatttga 399

<210> 18332
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18332

tgcactgccc anagaggaca actcttcata atacgtttga accaccattg atgtccctta 60
tgatgtcgtt cagtatctca aaaaagccta cgatgatttg gaagaaccct tgacctgttt 120

tctcaaactct tccaaagttg attggcattt ctatgaccca tatatgttac agttaccaa 180
aaggttcaaa gagaaaacca aatgggtgtg aatagtaagc cccggttggg caccatagtt 240
gaaggtattg agccacaagg cagttggtgg ggttttgact cactctggtt ggacctctgt 300
ggtgagggtt gtttagaatg aaaaacctct agttttgtta atgtttcttg cagaccacgg 360
attgaactcc aggglgttgg aagtgaagaa gatgygggtat tcaaltccta aggatgaaca 420
agatggatc 429

<210> 18333
<211> 400
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18333

agcttgtttg cacgaattta atttaataac ttacttttta caaattatct taagtatctt 60
gtgaaaataa gttacttaaa ataaattata tgttataagt ttttttcaa tttcattggt 120
cactaatcta ttgaaactt cattttcttc ttttacttaa ttttaaaaaa aaattattat 180
ttcaacattc ttacaaacac ttggaattaa tcttttatgt catttgatat ttatcactta 240
acttatcaat taatcttact aaatactttt aattaaataa gttagtttat aaacttctag 300
ctattcaact cctaagttat agcttataat aggggtgttc gtgagccagt tccggaccag 360
ttttgaccaa atttangatc taacctaatc acaattgatc 400

<210> 18334
<211> 441
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18334

tgaaggtgcg taccacacca ttntttcata gcaaattatt gattatgtgt ttactatcat 60
agctatcatt tctttctccg tcattgaggg aaccacttgg gctgccaaat cctccacct 120
ttgggctgat tctttgaaag atccatgcc cctcttgcat atgctctgta gttgcatcct 180
atccggagcc atatcagaat tgtactaata ctgcctaacg aagtcaacca ttacgtcctt 240
ccaagaatgg actcgggaag gttccaagtt aatgtaccag gtaacagcta cccagtaag 300

actttcttgg aagaaatgta tcaccagttc ctcatctttt gtgtatgcc acatcttccg 360
acaatacatc ttagatgggt tcttggggca agtagctccc ttgtacttat caaagtctgg 420
caccttgaac ttgtgatggg t 441

<210> 18335
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18335

ntaagagcaa ttcctttctt tntcttatca ttctccttat gtatatcaa tctcattagt 60
tccatttcat gttcctgtaa ctttccaaat aaagtagcaa gagacatgtt agatagatct 120
catgattcaa taatggttgt taccttgggt tgcattccc tacttaagca tctcaaaact 180
ttattgataa gatcttcatt tgaaaatatt tttcctaaag atgcaagatg attaattatg 240
tgtgtgaatc tcttttgcac gtcctgtttg ctttcattag gattcattct aaataattca 300
tattcatgag ttaatgtatt tatcctagat ctttctacat ttgttgtagc ttcattgtgt 360
acttgctggg tatcccatat atcttttaca cttttacaat ttgataccct acagtgttta 420
ttcattccta aaacagatgt aat 443

<210> 18336
<211> 406
<212> DNA
<213> Glycine max

<400> 18336

agcttcaaca ttcaacttcg agcttctcgt tatattatag gactcaatta gacatccgag 60
taaaaagtta ttgtcgtttg aatttgctca gagcttcaac attcaatttc gagcgtctcc 120
atatattacg ggactcaatc agacatccga gtaaaacggt attgttggtt gaatttgctc 180
aaagcttcaa cattcaattt cgagcgtcta gatataattac aggactcaat caaacatccg 240
agtaaaatgt tactgtcggt taaatttgct tagctctcca gctttaaatt tcgagcgtct 300
cgatatatga cgggactata tcagacatcc gagtaaaaag ttattgtcat ttgaatttgc 360
ttagagattc aacattcatc ttcgagtgtc tcgttatatt acggga 406

<210> 18337
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18337

ctcaagcctt gagcaaatc caacaacaat aacitntac tcagatgctc ttttgcgttc 60
 cgtaatatat cgagacgctc gaaattgaat gttgaagctc tgagccaatt cacacgacaa 120
 taacttttta ctcggtgatg tgattgagtc ccgtaatat acaagacgct caaaattgaa 180
 tgttgaagct atgagccaat tcaaatgaca ataacttttt actcggtatg ctgattgagt 240
 cccgaaatat atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac 300
 aataactttt tactcggtatg tctgattgag tcccgtata tatcgagacg ctcgaaattg 360
 aatgttgaag ctttaggcaa attcaaacga caataactnt ttaactcggtat gtctgattga 420
 gtcccgtaat atatcaagac gctcgaaatt g 451

<210> 18338
 <211> 444
 <212> DNA
 <213> Glycine max

 <400> 18338

tatagctcta gcagccaggt tgtaaagatg atatctcttc ctcttgcat aattgtcact 60
 caagatgcta gccagtggat cccctctgag attggtcaag ttgatgtcag ttgtgatgct 120
 tcagttcctt aattggggag tctcacaact tatggtgggg tgcttcatga ttatacatga 180
 aattttctgt gtggactcaa atccaatatt ggagattcat ctgtgctgaa tgtacaattg 240
 ttgactattc taatgaatct tgcctatgaa attctatttc cttttaggaa tggatcatgg 300
 aatagtggga aaagaactat tacattactt ctattgtagg ggctaataat gggagctcta 360
 tcatggtgat gtcaaaagggt ttgttttata aaagtgaact acttttggaa tctgatcttt 420
 attgctgaga tattactttt atac 444

<210> 18339
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18339

tctaatagta tatcaaaaga gagaaatggt agcaactttc tcttttaaca ctttnttgaa 60
cacactttct agtttcract atgaaattta ttgaaaatca caaaattttt gcagggtctta 120
cttctcattt aatgattctc tctcttgatt ttatgggttc caatagattt caaccaatag 180
tgaagtgtta caaagattaa cctaaccctt cttgctttct cagcatacat caagsagagg 240
attatgtaca caagctgaaa ggctgctcca atagaattaa cagttgtcac caagagatta 300
tcaggtgata taaggagtgt gccataccac aagcagatca tgcagttcaa gagagaataa 360
atatatggca acccgagaa catatctgtt gaccatttc ggatgattct cctaaatgtc 420
ggctacaaa tcaaacaga ac 442

<210> 18340
<211> 248
<212> DNA
<213> Glycine max

<400> 18340

agcttgtgat tataaaggca aattttcact gtgatttttt ctctctgttt cttcttctgg 60
ccatgaaact tctctttgtc acttgttgaa tgagccccac ttaaaaagtt tgaattttga 120
ggagaattat ctttctgggt gtttttcacg agagcaagat cttgaagttc ttggggttta 180
tgtggaatcc tctgtcttgg gttatggacg ctgctgctat aatggcaatt gcacttgccc 240
ttggaggg 248

<210> 18341
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18341

cttgctgaa gcatatcgca aaaatgggag aaaattacat atatttttgc aaccatttaa 60
ggagaaatta aacaatgcac atatataac ctgatgacat gtgtattgaa ctcagcggta 120
actttcatgg ggttcggctt gtaagcttgt tttcgggctt ctcttgcttc ttttaatcgc 180
ctatgccaga catgatcgaa gtgacctatg ttagcggttaa gggtagggaa tatagcaaga 240

caaattacgt aaaagaatag caaactgaac ttgctagttt ccatgactat tgtttctttc 300
tcttgaagat ctttaatcgt gtgcgcctta tgttgtttat tgtgtgcttt tcaacctata 360
tatntattta ttttggcatt ttaagttctc ctcccgtagt ttgcgctaga cccacatata 420
aatggcacta cgatac 436

<210> 18342
<211> 463
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18342

acactatgga aaactcccg c ttgccttgcc ccttgatata ttngaggagc ttatggatac 60
tatgaatgac aaattccttg ggataaaggt attgttgcca tgttttcaaa gcccgtagta 120
aggcatacaa ctcttatca taagttgaat agttaagggt aggaccactt aacttttcac 180
taaaataagc aattggatgg ccttcttgca tcaacacagc cccaatccca acatttgaag 240
catcacactc aatttcaaaa gatttttgaa agtttgcaa cgcaagtatg ggggcattag 300
ttagcttttg cttaagaaca ttgaaagctt cttcttgttt ctctcccat ttgaaaccaa 360
catttttctt gagcacttca ttgagagggt ctgccaatgt gctaaaatcc ttcacaaatc 420
gtctataaaa acttgctaag ccatgaaaac tcctcacctc ggg 463

<210> 18343
<211> 379
<212> DNA
<213> Glycine max
<400> 18343

agcttgtctt caacaaataa atcataatca aatttgtgat cttcaaagcc caactccagc 60
ttctttctcc ccatatccac tatgcagctc gcagttagca tgaatggcct tccaatatt 120
acaggaatgt cattatcttc acagatatcc attaccacag agtctgcctg tttactctg 180
accagcacat cttcaattac tccatatggg ctggaaatgg agcgggtcaac aagttgtaaa 240
gtcatcctag tgagcatgat ctctactct cccaaccttt tgcacatgga gagtggcata 300
tagctaatac tggctcccat gtcaataaga gcctttccac agtgacttct tcaattgaat 360

aaggaatggt tacactccc

379

<210> 18344
<211> 378
<212> DNA
<213> Glycine max

<400> 18344

agttctggtg ggacatcttg acttgctttc caatctgaca ttcaccacag attctgcctt 60
cttctatattt cagattggga atgctcttaa cagcaccttt gtcaatgatt ttcttcatgc 120
ctcttaagtg cagatgtcca aatctttgat gccatatttt gacttcatct tctttggaga 180
atagacatgt ggaggagtaa ctgggtttctt gaggtgtcca taggtaacag ttgtcctttg 240
acctgctgcc cttcattaga acttcactct tctcatttgc caccaagcat tctgactttg 300
tgaagtttac attatatcct tcatcacaca gctgactgat gctgatcaag tctgcagtca 360
gtccttcaca gcagtact 378

<210> 18345
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18345

ttgaagtact acgaagcagc aaatgaagag gacctcttct aatctcatgc tncatcaaatt 60
tagtctcagc ttcaaatttg gatacatgtg tgcaaacaga gccattgcac aagctatgag 120
agacgaagac ataattcata taattgactt ccatattgat gaaggaagcc agtggctcac 180
ttagattcag gattttgtag ctaggtctag ggggccactc cacatccgga ttacggctat 240
tgggtgattca acatcatctg atgcaatgca gatgggtggga aataagttat caaaacttgc 300
tgaggaattt aagggtgctct ntgaatttga tgtttagtct atctttgctt gtgatgttca 360
gtacaaaaac cttcgagttc aatctcgggt ggctctgggt gtgatatttg cattcatgct 420
acatcagatg ccggatg 437

<210> 18346
<211> 401
<212> DNA
<213> Glycine max

<400> 18346

agcttcttca taaacgtgac atttttgcac aatacacaat gtccgggtaca ccacaaccaa 60
atgggtgtatc agaaaggcac aatagaactt taatggatat gattaggagt atgttaatca 120
attagactat atccgtatct ttgtggatgt atgccttgaa aactgtcatg tatttggtga 180
ataagggttc taglaaggca gtcccaaaga catcttttga actgttgaca aataggacac 240
ctagtataag gcacttgcac gtttgggggt gtcaggcaca aataaagatc tataatccgc 300
acgaaagaaa attggatgca agaacaatca gtggatattt cattgggttat caagaaaagt 360
caaaggagta tatgttttat tgtcctaacc atagtatgag a 401

<210> 18347

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18347

cgcttagcat cagaccactt ccagggtact ggaactactt cacatggact tgatggggcc 60
tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttgagg atgatttctc 120
cagatttacc tgggtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180
gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgatca 240
tggcagagag tttgaaaaca gcagggttac tgaattctgc acatctgaag gcatcactca 300
tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacacgac 360
cttgcaagag gctgctangg tcatgcttca tgccaaagaa cttccctata atctctgggc 420
tgaagccatg aacacagcat gctacatcca 450

<210> 18348

<211> 395

<212> DNA

<213> Glycine max

<400> 18348

agcttctaaa ctttatttta gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatattctaa gaaggggggg gttgaattaa gatatcccaa attactttcc acaattaaaa 120

atttatttca ctttcttttc aagttataga ttcccttaac aatgaacttc ttaaataatta 180
 attcaaataa aacaatttga atatgaatgt aaagcaataa taaacaaagg aggttaaggg 240
 aagagaaagt gcaaaactcag atttatattg gttcggccac acccttgtgc ctacgtccag 300
 tcccaagca atccgcttga gagttctact atcttgtaaa ttccctttac aagttctaaa 360
 cacacaagga caatccttcc tttgtgttgc gaatt 395

<210> 18349
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 18349

agcttataat atatcgaggc gctcgaaatt gaacaacgga agctcttgag aaattcaaatt 60
 ggtcataact tttaactcgg atgtccaatt catgcgcac acatatagag acgctaaaaa 120
 atgaacaacg gaagctctcc agaagttaaa atggtattaa gttttcacac tgaggtccga 180
 ttcaggctta taatatatcg gggcgctcga cattgaacaa cggaagctct tgagagattc 240
 aaatagtcac aacgtttaac tctgatgtac gattcatgcg cattacatat atagacgcta 300
 aaaaatgatc aacagaagct cttaagaaat ataaatgggc acaagttttg acactg 356

<210> 18350
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18350

agttttattaa ttnttgtaat taggttttta gtttgaagtt attttaataa tgcttaatta 60
 tttacaagcc tttgttcacg ggtggacaga ccttacaatt aattaccgga ttcccttcta 120
 gttttatgaa gttagaatga aatttttaac tgtagtttaa gtttaagttt aagtttagtag 180
 ataaataaaa ctgggtaatt ttgaatatat tctatagata aattaaaata catgtgaaga 240
 aaaattttaaa taaataattt ttttttctac aactaacaaa taaataatta aataaaatat 300
 ggactaacia attatttata atacaacaa atattgaaaa aattattttac acaatatata 360
 tacaataata ataatt 375

<210> 18351
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 18351

gtgtaatcga ttacacacat acttacaact ttcacattta gagagccgca gaaaacattc 60
 tcaacagcca catcttttta ttcgggtctt gaatggccat caaaggcata tatatatgtg 120
 acttgagaca cgaatttgat aagagatttt caaaacaaaa aggtcttata ctcttatata 180
 gcaaaatacc tttatcctct tacatatcc ttggccaaaa ctcttttgat tcaataagga 240
 attatctgag tgctcacatc gctcaatcta tctctttata cagagatttc ttcttctctt 300
 cttcattctg aaaagggatt atagagaccg atgggtctct gttgtgaaag gattc 355

<210> 18352
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18352

ttgaagagan agcaccagat tatgatcttt ttgtgttctt tgaaaaagcc tatgacactg 60
 tatcctgggc cttcttggat tatatgctat ctaagttagg tttctgtact aaatggagac 120
 aatggattgc tgccgtcttc caatcagcat ccttttccat cttagttaat ggtagcccta 180
 ctaaagaatt tgtccctact cgtgggttga gacaagggga ccccttagcg ccattgcttt 240
 tcaatatagt gggggagggg ctcactgggt tgatgagaga ggccattctg aaaaatctct 300
 atcgcagcta ccatgtgggg aatcataagg agcctattaa tacccttcaa tatgctgatg 360
 atactgtttc tattgcggaa gcttcttggg agaatgtcct tgccatgaag gcaatgctta 420
 aaggttttga gat 433

<210> 18353
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 18353

cttctggctt caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc 60

agcctttgat gacagctttc caggttctgc tatccagtga tttgaggaag gccaccattc 120
 ttgctttcca atattcatag ttgcttccat cgagaattgg tgggtctgttc actgggtccgc 180
 cttctttctc catgttcata agaatttata tccctagatc tcaactctgtg atttcgagtg 240
 ttggctctga taccaattga aattctgata ccaggggaca gatgtcgtac aggatgtcac 300
 gacatcacgc ttcagaacat gcagattata tgtgtccgta tgaacagatt acacaagtaa 360
 ataacacaag agaattgtta cc 382

<210> 18354
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 18354

tcaagcttgc actgccccaa gtggacaacc ttccagaaaa cgttgaagct ttcattgttg 60
 tcccttatga tggcgttcag tatctcaaaa aagctacga tgatttggaa gaacccttga 120
 cctgttttct caaatcttcc aaagttgatt ggcatttcta tgacctatat atgttacagt 180
 taccaaaaag gttcaaagag aaaaccaa at ggtgtggaat agtaagcccc ggttgggcac 240
 catagttgaa ggtattgagc cacaaggcag ttggtgggggt tttgactcac tctggttggg 300
 cctctgtggg ggaggttgtt tagaatgaaa aacctctagt tttgttaatg tttcttgcag 360
 accacggatt gaactcgagg gtgttggag tgaagaagat ggggtattca attcctaagg 420
 atgaacaaga tggatcattc acgagtga 448

<210> 18355
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 18355

tgaaggagaa ctagatgcat tgggttaactt ggtaacctag catgccttgt atcagaaatt 60
 tgtacctgtc gcaagagtct gtgggttgtg ctctctgca gaccaccata cagacctttg 120
 cccttccatg tagcaacctg gagcaaatga gcagcccgaa gcttatgttg caaacattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacaa cagaacaatt atgacctctt 240
 cagcaacaga tacaacctg gatggaggaa tcacccta at ctcagatggg ctagccctca 300

gcaacaacaa cagcagcctg ctccttcctt caaaaatgtt gttggcccaa gcataccata 360
catttctcca ccaatccaac aacagcaaca gccctagaaa cagccaacag ttgaggctcc 420
tccacaacct tccctcgaag aact 444

<210> 18356
<211> 385
<212> DNA
<213> Glycine max

<400> 18356

agttttgcat accccattga tccattagga aattacttat gaaagagagc catgaggggtg 60
ggctcatggg ccactttggg atagacaaga cccttgtctt actcaaagaa aagttttatt 120
ggcccatat gaagaaagat gtccataagc attgcactat gtgtgtggct tgtttacaag 180
ccaagtctag ggtgatgcct catgggctat acacacctt acccatccca tctgcacctt 240
gtgtagacat tagtatggac tctgtccttg ggcttcctag atcccaaaga ggtgtagact 300
ctatctttgt ggtggtggat aggttctgca tgatggcaca ctctatacta tgccataccg 360
tggatgatgc ttccacatct caaac 385

<210> 18357
<211> 399
<212> DNA
<213> Glycine max

<400> 18357

agcttcttag tttcagatga tgcagatgag cttgtagcta cctcatgcac tcctctaattg 60
accatggcat catttatggc gctaaattgc tgggagttgg aagccatctt ctcaatcaag 120
tttctggctt cagcaggagt catgtctcca cgggctccac tactagcagc atctatcata 180
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctccgaaatc 240
tgatggtgag ggcaattggc acatagcttt ttaaattctt ccagtatctc atataggctt 300
tctccactga gttgactaat acctgagata tccttctgta tggtcgtaga cctagaagca 360
cggaaatatt tctctaagaa tactctctta aggtcatcc 399

<210> 18358
<211> 438
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18358

tctcagccaa cttgcttcct cactagcagt tgctagtgt atcatctcat attccatagt 60
ggactgagct aagatagtct gcttctttga cttccaagaa acagccccac cagctatgct 120
aadtatatag ccgcctggtg ctttggaatc accgaaagg gtgttccaat ctgcacglt 180
gtatccttca agtataacaa gaaacctttt ataatgtaat ccaaggttta tggttctttt 240
aaggtagctc attacccttt caatagcgtg ccagtgtcc atactangtc tactggtaaa 300
cctgcataat aatcccacaa cataggctat gtcgggtcta gtacaatcag tggcatacct 360
aaggctgcc aatgatacttg catactcagt ttgtcgtata cattcaccag tgttcttaaa 420
ccaatttaca cttggatc 438

<210> 18359

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18359

ttgacctana tttgaacaaa aggaaatcgt taagttatct attgtcaaga ntagatgggtg 60
atgataaaga tgaagaagaa gcggaaaggt tattattaat gtacgttccg gtgagggaaa 120
tcaaagtaaa gggtcacaaa acaacgaaag tagaagtgtc aggaagagtt tggcagagag 180
tggcttccaa gatagacca gatgcacatt gcactgtgat gctaacttga caatggcgcg 240
caaattggac cagggcctca ataacatcag aatttttcgg gacttgaatg aagatgggtt 300
tcaaggcaag atcgtatct tggtaataa cgaggggtat ttttggcttg ttcttggatc 360
caaggggcct accacaacct ttgtttgagg atggtggcat ttggtgagag gaagatccaa 420
tataattatg aacagt 437

<210> 18360

<211> 339

<212> DNA

<213> Glycine max

<400> 18360

agtttgaatc ggacctcagt gtgaaaagtt atgaccattt gaatttctcg agagcttccg 60
 tggttcaatt ccgagcatct cgacatatta tgtgcccga tctgaccttc gtgtgaaaag 120
 ttatgaccat ttgaatttct cgagagcttc cgatgtgtaa tttcgagcga ctcaatatat 180
 tgtaagcctg aatcggagct cagtgtgaaa agttatgacc atctgtattg ctogaatgct 240
 tcttggatc atttccagc atctcgacat attatgtgc cgaatttgac ctccgtgtga 300
 acagctatga ccatttgaat tctcgagagc ttcggttgt 339

<210> 18361
 <211> 354
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18361

agctnattga tttaaataaa gcttagaaaa ataggaataa ttaaggaaat caaatgcta 60
 taatgaaagc taattgagga aagaatgact aattgaggaa attagagcta attaaggaaa 120
 acaaattaat tgaggaaaaga atgggttatt gatgaaaata tggctaatta aggaaaaaag 180
 attaattaac gaaaacaagt taattaagga aagaagaata attgagaaaa aacatgatta 240
 attaaggaac taaagacaga cttagtgtcaa gaagcccact aatctgcacc tataaaagaa 300
 gaagagataa gaacgaaaag accaaaaatt tctaccgaat acaattctta tata 354

<210> 18362
 <211> 401
 <212> DNA
 <213> Glycine max
 <400> 18362

agtctttgct tagaaaaatg cagaaaccaa aaaatacccc tggttttcat acagccgttg 60
 tccatcgagg tactgaacaa aaccatcaat gagatatgga ccaacataag aagccaaagt 120
 gtttaacaat acaagaaaag ctgtgataag aatctccttc catgctgaaa ttattaacga 180
 tttcaccaac ttcagtgtgg tgacactatt aattccacca caatcagcct caactttctc 240
 tctgaaagtt ggaaaagcac caattacact atctctgctg tctagttgag gaacatcctc 300
 aaggtccagg gtcttcttat taccaacggc tataagagga cccaccaag agaaggtaag 360
 aatgctcaaa attccagcat atgagaaagg cgtaactgag t 401

<210> 18363
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18363

atgatatatg tgagggactc aggatcacta gtaattataa attccttgcg ataaaggcag 60
 tgtggccttg ttatcaaagc ccgtacttag gcatacaact cctaatacata agttgaatat 120
 gtaaagggtat gaccacttag ctgttcacta atataagcaa ttggatggcc ttcttgcatc 180
 aacacagcct caatccaac atttgaagca tcacactcaa tttcaaaaga tttttgaaag 240
 tttggcaacg ctagtatgga ggcattagtt agcttttgcg taagaacatt gtaagctgct 300
 acttgtttct ctccccatat gaaaccaaca ttttccttga gcacttcatt gagagggtgct 360
 gncaatgtgc ttaaattcctc acaaattcgt ataaaacttg cttaccatgt gtcgaactac 420
 ctt 423

<210> 18364
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 18364

acgaggccaa aagctatcgg tcgtcttagc ctacaagcat tccatgtcca tgaagatggg 60
 gacaatatgt atgaacgatg gatcgaccga tctaagaatt ttctccataa atcttacctt 120
 atcaagccgt gtacccatct ctctagctga ctggagattg ctcagactct ccagaaatag 180
 tgagagaaga actctcttta tctcatatgc agggctgcgc actccactgt taaaggggtga 240
 agatgcacct tctcgacttg tgttgtgccg caggtcgaca tagcattcag aacagcgcgt 300
 gtctaattcta cgcagact 318

<210> 18365
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18365

tcgattacac acatactgta atcgattacc agaggagaat ttcataanaat attctcaaca 60
 gtcacatcgt ttctgttggg ttcttgattg accatcaaag gcctatatat atgtgacttg 120
 agacacaatt ttttaaagag ttttcaaac aacaagtgtt aatctctcaa aaagcaaat 180
 cgtttatcct cttagaatt ccttgccaat tcaatgcaat tcataaggaa tcattgagtg 240
 ctcagactgt aaactatctc tccaagagag atcattcttc tctctctctg atcactaagg 300
 ataagaaccg aggtctttgt gtaaaaattc tacacanaga agattgtctt gggttaaact 360
 gtaaagaatt acaagatagt gaact 385

<210> 18366
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18366
 agctttatct ccaaatcac atctacagga ccaaggctct tcatatcaaa attattagac 60
 tagaaaaact tcacatcatt tatggaatgt atattactac caaatatcaa tatgttatcc 120
 acatacaaac ataaaatggc acatccatta tcatacaatt gtttcactac acacatttat 180
 cactattatt aatttgaaaa taatacgaaa gaataacttg atcaaaactt tcatgtcatt 240
 gctttggagc ttgttttaag tcataataag atttaacaac caagaatcta taagtagtac 300
 taagcaaaga atatccaaca aaaacataat taacagttta tgggtccaatt ttgcttttc 360
 ttattaatag ggaatgttaa ccttgctaga cccccccaca ctt 403

<210> 18367
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18367

gcttaaactc agttttaatt ataaattact acaagaaaat tatgttatat attattttac 60
 tgcaaaactaa gaaataaaaa aattacttta aagtaaaaat ctacttctaa ttaaagatta 120
 cttaaaaaaa attatcatat aaattatttt actggaaact acaaaataaa ctataaatct 180
 aatttaatta taaaattaat aaaaactata cattcaaact gctataaata attacttaca 240

taaaattata acaaaaatgt attatcaatt acaattatTT tgattgttat ataattTTTT 300
 tcatattttac caactTTTT caggactcaa tntTTTTta tttaaataaa tatcatgaca 360
 tattcctttt cttttataca cacaacaag g gatataaaa tataaaattc atttaattaa 420
 aaaattatta acaactataa attcaaaactg gtct 454

<210> 18368
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18368

gtcttatgaa ttctttcaaa ttaataagag aattgtatgt tatcacatct ggttcacatc 60
 ctgcatcttt catttcctca aacacagtga ctgctccagt taacatccct acctttccat 120
 acccataaat gagaggatta taggtgacaa tgtctggcct' aagaccaga gctttcattt 180
 cttcaaataa actcctggca gtttctatgc ccccttctct ggccagacag cctatcacta 240
 tattatacgt aaaaactgag ggcgaaaggc cagccacaac catgtccttg aaaaggctta 300
 atgccaatTC ccttttgctt gattttgaaa gcctgtgaag aagatcatta caagacctca 360
 cttttggcag aaccatgaac tngttcttct tccaaaa 397

<210> 18369
 <211> 120
 <212> DNA
 <213> Glycine max
 <400> 18369

ctagttcact acttctagta gttcaagata tgcttctaga ggatttctgt tgccaaaaag 60
 ttactctcag gccaaagaaga tactatgtcc gatgggtatg gagtattata agattcatgc 120

<210> 18370
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18370

agcttgtang tatatagaga tgaatgaagg gagagagaga gaagagcatg aaattttgtg 60

ctctaaaaga gctctgaaat ctgaagttaa tattcaaagtg atcaaagttg aaaaaaaatg 120
cacacacatg acctctatatt atagcctaag tgtcacacaa aattggaggg aaatttgaat 180
ttcaattcaa atttcacttt aatttgaaat tgaatttgtg gagccaaact ttggagccaa 240
aatttcacta attatgatta gtgaatttta gttatggttc agcctactaa tccaagatca 300
attccaagat tctccactta gtgtgcttac gtgtaatgag gcatgtaaaag catgaacgac 360
atgcacatag tgtgactata tgatgtggca atgg 394

<210> 18371
<211> 451
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18371

tcttctgctc aacagtatat agccgttcat ggctcctttc cattctatta cctccaatg 60
ccttatgtgc caaatgctgg aatccaagcc accattgctc cttcagctcc ttctcaagcc 120
aacatagcta ctgctagtgc agcaccttca aacagatgga atccggattc tagtgcaccc 180
caccatgtca ccaatgtttc tcaaaatata cagcaattaa caccttttga agggtcagac 240
cagataacac ttggtaatgg acagctcctt gacattaact ccacaggtct aacttcattt 300
caatctcctt taaaccctac gtttctctta attcttagca atttgctata tgttccttca 360
attactaaaa ttcttattag tgtgagttag ttttgtaagg ataatctagt taattntgaa 420
tttcatccta ccttctgtta ggtgaaatca t 451

<210> 18372
<211> 393
<212> DNA
<213> Glycine max
<400> 18372

agctttgtat attgggtgaa gcacgctaag atgtcgggtg gttgctatga cgaatggctc 60
catcgccgca tgagtattta acctatgaag aatcaaaaag taattaatat acacttgaga 120
gagagggatt agagattgaa tttatctata tatgttgata tatagcaatg aaaatgaaaa 180
tgaaaattta taccaatggc tcatgagttg atggtagcaa gagtcattta cgatgacata 240
agctttggct agtagccaaa ttgtgctctc aacaccttcc ttagcaggtg agacgacttg 300

actgacggca gctgacagat cccagcaga atgtggcaaa ctttaattcga tggccactgg 360
ctttaaagtt ccatcttctc tcaataaaag gat 393

<210> 18373
<211> 399
<212> DNA
<213> Glycine max

<400> 18373

agttttctaa tggatgcct accccttcac ctaataatat ttgcaaactg aaacgctctt 60
tatatggatt aaaacaggca ccaagagtat ggtttgaaaa gtttcgctcg acactacttg 120
tttttgaatt cactcaaagt caggatgata cctctctttt cctacacagg actcctaaag 180
gcatcatgga gcttcttgtt tatgtggatg acattgtggg cactgggtca gatcaagatg 240
ctgtttctag aacaaaaaat cacctgcatt caacctttca gatgaagac ttaggccatc 300
tcacttattt cttgggttta gagggcgatt ataatcacca aggcatttct ctatgtcaac 360
acaagcatat tcaaaactgg gtccactagc tggactccc 399

<210> 18374
<211> 443
<212> DNA
<213> Glycine max

<400> 18374

tatggtgtcg ctcatgttct tggtttccct cacctacatg tgtttatact ctaaagctgg 60
tttccacgtc cacatcatca agcacgtgca gccacgctcc tttcatcatc aaccacctct 120
tcccttcttc aaacgtaacg gagtggccgt cttcatccca aacttcccgc accggaaagg 180
ggaaacggcc ggtgcgccag aaaacggagc tccgccacct ggtgttcgga atcgcggcgt 240
catcgaagct atgggagcac agaaagaact acataaagac ttggtacaag aaggacaaga 300
tgaggggagt ggtgtggctg gacgatcgcg tgaagacgaa cccaaaggaa gggttgccac 360
caacgaaggt gtccaccgac acctcgaatt tcgtatacac caacaagctg gggcaccgct 420
ccgcgattcg aatctcccgc atc 443

<210> 18375
<211> 405

<212> DNA
<213> Glycine max

<400> 18375

agcttgagaa actcaattag cataaataga taatataaga gaatataatc acaattatca 60
taccattaaa aatataatta agcctaata taagaatttg attttgtatt gtaaggtaa 120
aatattatag atcaatctat aaaaaaacat tttaaatata taacygtyta cgtatgttca 180
aatcacaaca ttgttaatgt atcataatta aattcaaatt atgatttcaa agagtatatg 240
ttattgatat tcttttaggt ttgggtggat aagaaacatg aggaaaggaa gaaagcatta 300
tggaggtggc caatgggttg ttaactagt tagggtaa atgcactttt atctttaaat 360
gaatataaaa ttagttttt gatagtgtaa aaagtgcgat aaata 405

<210> 18376
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18376

tatccagaag aacttctagg agaagaaaaa aatgaaatga tcttttctat aagtgaaaat 60
tatcttatgt acaagaataa ttgtagaat tctctcatct ttagagaaac tagatgacaa 120
gtttctacca acttaggggg agccttagca gatataaaaa aaagttggaa agttaaatta 180
tctcacaatg ataataacat acatttcctt tcatgttaat gctgtcagtc aatttctcaa 240
tgcaccatgt gatagtcatt ggtatgtagt tgttcagatc ctgagatgca tcaaaggatt 300
acctggcaaa gggcttattg atatgaacaa ggctaacatc attgtacata caaatgcaaa 360
ttgggaaaga gatgctagt atagaatct cagcataggc tattgtgttc ttattgggtg 420
ngaattgata ttgag 435

<210> 18377
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18377

agcttatcta tcactttgta catgcagcct atcaaggata ttggtctata atcatttagg 60

gactgaggat ggttaacttt ggggataaga gccaaagaaag aggcattgct gccctctaggg 120
aaacaaccgt tgacatggaa ctcatccaca aatcttctga actctgggtt tagcacactc 180
cagaattcct taataaaatt gaaattaaaa ccgtccggcc cagggcactt atctccacca 240
caactccaca ctgcttcctt aagctcctgg tctgagaaag gtaaaattaa accctccctc 300
tgccittgat caagagaagg gaattgaact ccatcaaggg taggcctaga gggattctgc 360
tcagaanatc tgttgagaaa gaagttcaca ggcctatct tcac 404

<210> 18378
<211> 399
<212> DNA
<213> Glycine max

<400> 18378
agcttgcttc ttctgaatat caaatgcatt ttgggaaaaa gaaatagaca aattaggatt 60
ggttagaaga gcactaactg aaattaaatt gaatttgaat ttaggaatgt aggcaacatt 120
atgcaagagt aaggtattgg ttaagcaaac tgaactaatg gcaatgatag gtataacatc 180
attgttaggc agagtgcag ttttatcaga aacaagttgg taagaccgaa aatgatgaag 240
ggaacaagaa atatgaatgc tggcaccaga atctaaaagc caacaatcat gaagaaaatt 300
agaagtggat gtagaaagga tcataccact ggagaagaa caccttgagg gatgaaacat 360
tggagcatga cttctaaaag attatcaatt ggtatattg 399

<210> 18379
<211> 391
<212> DNA
<213> Glycine max

<400> 18379
agcttggtact cttgttattg gccgtgacga agagattaga agggttgtga ggattctatc 60
acggaggact aagaacaacc cggttctcat tggagaaccg ggtgtgggaa aaactgcggt 120
tgtggaaggg ttggcacaga ggatagtaag aggggatgtt ccaagcaacc ttgctgatgt 180
gaggcttatt gcgttgata tgggggcgtt ggtcgcggt gccaaagtata gaggcgagtt 240
tgaggagcgg ttaaaggctg ttttgaagga agtggaggag gctgagggga aggtgatact 300
cttcattgat gagattcatt tggtccttgg tgctggtaga actgaaggct ccatggatgc 360

tgctaattcta ttcaaacctta tgcttgctcg c

391

<210> 18380
<211> 406
<212> DNA
<213> Glycine max

<400> 18380

agctttcctt cctcattatc atccttgtta ccttgcctaa tttttcaaca agtcacgcac 60
aagacgaccc tttttacctt taccaatatt gctcaagcaa cagaaccact gccaacacct 120
ccttcctaat aaacctcaga accctcctct cttccctttc atctcacgcc accggcgaca 180
cccaattcta caacacaaca ttcaccggaa ccaacccctc cgacacaatc tacgccatgt 240
tcattgtgtg gggcgacgtc ccttctcagc tttgtcaagc atgcgtcata aacgccactc 300
aaagactctc ctccagaatgc tcttgtcca aagaatcggg gttttggtac gacgagtgc 360
tggtttggtt ttccaccaac ccgatcttca ccaccgtggc cacaac 406

<210> 18381
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18381

tcaagaacag ctccctcttc anagcctaag taaatatggt agcttcttga tcttttctct 60
tatagtgtac tagatcagta gttccatcct tgcaaagatc tcttaaaaaa taaacttcac 120
atcaatatgc ttgcttcttc catgtagaat tggatttctt gacaatttaa tggttgaact 180
atagtcatag aaaattgtag tagctttaat ttgcttgaac tacaactcct caagaatttt 240
tctcaaccat atttggcttg gcaagggtgac aattgggtgc ttttttagatg accacaaaac 300
gacacctgtt ccaagcataa agacagaacc aaaagtgtc tttctatcat ctagatcacc 360
tacataatcg ttgtcagttc cccaaggttt catgttctt gaaaatagtg aagaattctc 420
ttggcagcca acaaattgcaa ct 442

<210> 18382
<211> 287
<212> DNA

<213> Glycine max

<400> 18382

catccttgca cacatctctt aaaaaataaa ctccacatca atatgcttgc ttcttccatg 60
gagaatcgga tctcttgaca atctaattggc tgaactatat tcatagaaaa ttgtagtagc 120
tttaatttgc ttgaactaca actcctcatg aattttcttc aacctatatt ggcctggcaa 180
ggtgactatt ggttgctttc tagatgacca caaaacgaca cctgttccaa gcattaagac 240
agaaccaata gtgctctttc tatcatctag accacctaca taatcgt 287

<210> 18383

<211> 377

<212> DNA

<213> Glycine max

<400> 18383

ccaagccaat cataatgcta gacaaaatat agatgttatt ataggtaaca atggcggtaa 60
tgacggaccg aggcagaacc ggggtaaggg agtaaagctc aatgttcctc ccttcaaagg 120
cagaagtgat ccagatgcct acctggactg ggaaattaat attgagcacg tatttgcttg 180
caatgactac actgatgtgc ataaagtcaa gctaacagca gctgaattct ccgactatgc 240
ccttgtttgg tggcataaat accatagaga aatgttgaga gaggaacgac cagaggtaga 300
tacatggact gagatgacaa gggatgatgag aaaaaggat gtgccacta gctataacaa 360
aaccatgcga cagaaac 377

<210> 18384

<211> 397

<212> DNA

<213> Glycine max

<400> 18384

tcttcttttag tttaggtccc atgaatgttt atttcttggc tattccactt ctcaaaagg 60
ctacaagtgt ctctcaccta atggaaaact gtatgtttcc aaagatgttg tctttaatga 120
gcttaaatat ccttacaatg atgtttttcc atccttatcc aactctgtca ctccatctaa 180
gagtaacttt ttaccaactg ctcatattcc cattgtttca ccttctccta atgaaccag 240
tcttccctct caaactgctg aaactaatcc tccttctata aatgctgacc ctctattgc 300

cctaaatgct gaatgcacca attcccaaaa tgtcacacta tcttcttctt ctttgactgc 360
tgaaccaact tctgtaaatg atgaacactc taacact 397

<210> 18385
<211> 377
<212> DNA
<213> Glycine max

<400> 18385

ttgtctttta ggattaaagt ctcacgattg tcacatgttg atgcaacaat tgttagtcgt 60
ggatatacaa gacatcttgc caaacaagt caggtagcc ataactcgcc tgtgcttttt 120
cttccatgcc atatgtagca aagtcattga tctgtcaag tttgatgagc tggaaaatga 180
ggctgcaatt atactgtgcc aatcgaagat gtattttccc cctgctttct ttgacatcat 240
gattcacttg attgtgcac tgtcagagaa attaaatgtc gtggtcttgc ttatttgac 300
tggatgtacc cggttgagcg atacatgaag atcttaaaag ggtatacaaa tgaatttata 360
tcatccataa gcattta 377

<210> 18386
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18386

agcttattct atctgntaaa tacaaggcat ccttgcccta tatagggaga ggacaaaaca 60
aaaaaaataa cagaataacc ttccatatgg atttaggtca cagcccaata attcaccacc 120
ttgaactaac atccatatag gacacaaact gtccttcca agcacacatg aacttaaccc 180
caacaatcaa cattgagcaa gcttaagcgg tgatcaaact tgctctttgg aacaagcttt 240
atgaacatat cagcaggatt gtgtagagt ctaatcttat gaactttgat tcttctttct 300
aaccgaatga agtgatatct aacatctata tgcttggttc tatcatgatg aacttgatcc 360
ttggccaagc atatagcact aaggctgtca cagt 394

<210> 18387
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18387

agcttctana ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120
tctatttctc tttttactca agttatgaat tcccttaaag acaattctct taaatattaa 180
ttcaaacgaa gcaacttgaa tgtgaatata aagcaataat aaataaaaga gattaaggga 240
agagaaaatg caaactcagt tttatactgg ttcggccaca ccttgtgcc tacgtccagt 300
cctcaagcaa cccgcttgag agttccacta acttgtaa at tccctttaca agttctaaac 360
acacaatgac aatccttctt ttgtgttttag agatccttta caaca 405

<210> 18388
<211> 394
<212> DNA
<213> Glycine max

<400> 18388
agcttgtatg gttaacgtct cacgattgac acgtgctcat gcaacaattg ttaggcgtgg 60
ctatacgaga catctttcca aacaaagtcg gggcagccat cgctacccta tgtgacttct 120
ttcatgcgat atgtaccata gtcttgatc ctgtcaagct cgatgagcta taaaatgagg 180
ccgcaataat acagtgctag taggagacgt attgtcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatcta gtcagagaaa tcaaatgatg tggacctgta catctgctgc 300
ggatgtaccc gtgagaacga tacatgaaga tcttagaagg atatacacag aatctatatc 360
gttcagaagg cattaatgat gagaggtaca ttgc 394

<210> 18389
<211> 395
<212> DNA
<213> Glycine max

<400> 18389
agctttaaaa gattggctaa gattttgtta aaacataagc acttagacaa tgaaggaaag 60
ctggagttgc tgcacatgat gtccaacggt atgtcaagga ataagatcgg gctgcacaat 120
gcacaaggca agataaaaatg tcaaatgaag aattgaagtt gcaggatcca cgatgtogga 180

tacaatgtcc tgacatcctg cccgaaaata ctggagttgc tgtacaatgc aagataaaaag 240
 acaagtgcag aagtgaagct gcaggatcca cgatgtcgga tacaatgtcc tgacatcctg 300
 cccgagaata ctggaattgc tgtacaatgc aagataaaaag tcaagtgcag aagtgaagct 360
 gcaggatcca cgatgtcgga cagcatgtcc tgaca 395

<210> 18390
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18390

agctttatctt ttatgtgctt aagatgtgta tcaacagcat catcatcgtc attctcaaga 60
 accttcttta taccaacagt aggttgggca tctcctaagt ttgtaatttt caagcccttt 120
 gaactgcatg agcaaaccac aaaaaattgt ttatataact ataaaaatta gttgtatgta 180
 aaatttggca atggaccaac atttacctga taaattcata caaattgtgg tactcatttc 240
 tctgaatatt acgaaagaga tgttcttgtt cagatttttag tctgaagaga aggtcaaaat 300
 aatgcatatt ggaaccacca ccagcatgcc actcaaattc cacatagtca atctgataag 360
 aaaggaaaaa aaacaattaa gatctccacg gtgtaaatat c 401

<210> 18391
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18391

actcaagctt gaaggcgtgt agtccacat ctnttcatag tagaatactg gttatgttct 60
 actatcatta tcatctttct ccgtcattga ggtgccactn gagctgccag gtctctccac 120
 ctttgggctt attctttgaa agatctgtgc ccnnttttgc acatgttctg ttgttgcatc 180
 ctatccggaa ccatatcaaa atgggtactga tactgcctaa tgaaggcaac ctttatgtcc 240
 ttccaagagt ggactcgaga aggttccagc tcaagtgtacc aagtaacagc taccacagta 300
 agattttctt ggaaggaatg tatcagcagt tctcatctt ttgcgcatgc ccncatcttc 360
 caataatata tcttttagatg gttcttgggc aagtagtccc cttgtacttg tcaaagtcca 420
 gcaccttgaa cttgggaggg gtgatgata 449

<210> 18392
 <211> 404
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18392

agcttgttca taaacgtgca tttatgtgca atacacaatt cccygtacac cacaacaaaa 60
 tgggtgtatca gaaaggcgta atagaacttt aatggatatg tttaggagta tgtagtcaa 120
 ttagacttta cccgtatctt tgtggatgta tgccttgaaa actgccatgt atttgttgaa 180
 caggggttct agtaaggcag ttccaaagac atcttttgaa ctgtggacaa ataggacacc 240
 tagtataagg cacctgcatg tttgggggtg tcaggcagaa ataagaattt acaatccgca 300
 agataaataa ttggatgcaa gaacaatcaa tgaatatctt attggttatt cagaatagtc 360
 aaaggggtat antgtttatt ggtctaata tagtatgaga attg 404

<210> 18393
 <211> 386
 <212> DNA
 <213> Glycine max

 <400> 18393

agcttaatga aattttgttg ggtatatcgg aggacaaata catgagattg caagaggag 60
 ttaagcaagt gcaaagacat tttgtggtga ataatcccc aaagaggat gatgtattcc 120
 atatgattat tcattccata tggctaagga ggttgaatgt gcgtgtgaaa taagtcata 180
 actctattat gttctctctc tattcatact tttgctaatt gttttaaagt ttaattgttt 240
 gaccttcaat attttgatac ttaaaagata atagattcga gtataatttt atcttatatg 300
 actaataatt ttaatacaag agtcatctct tttgtgactt aaaataaata taacaataag 360
 agagatgact ctacgaaata tgaata 386

<210> 18394
 <211> 390
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18394

tgtacgggta aagtctcacg attgtcatgt gtcacatgcaa ctattgttag ccgtggctat 60
 acgagacatc ttgccaaaca aagtcagggt cagcataact cgctgtgct tttcttcca 120
 tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180
 aattatactg tgccagttag agatgtatct tccccctgct ttctttgaca tcatgattca 240
 cttgattgtg catctgggca gagaaatcaa atgttctggt cctgtttatc tacgglyga 300
 gtacccgggt gagcgataca tgaagatctt aaaaggggtat acaaagaatc tatatcgctc 360
 ggaagcatct atngttgaga ggtacattgc 390

<210> 18395
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18395

agcttcatcc aactcaagca tggaaagaag acagtatata ccagtcattc gtatatttct 60
 aaaagctntt cacccttacc gatgattgaa aaaagctttt aatggaagtc aggagaatga 120
 atgccccccg gatgcattaa ccggaacca agttcatgat cgcgtaaagg acattgtaac 180
 tgtgtttggc aagtcccaga agaagacatc atctcccaac atgtggaaga agcgcttaat 240
 attctttgat cttccatact ggtctgatct atatgtgcgc cactgtctag atgttatgca 300
 tgtggagaaa aatgtgtgtg aatatttaat tgggtactctt cttaacatta aaaggaagac 360
 aaaagatggt ttgaaatgtc gtcaagactt ggttgacatg ggaatacgag agcagtngca 420
 tcccatatca caaagtctgc gaacatattt acccctat 458

<210> 18396
 <211> 401
 <212> DNA
 <213> Glycine max
 <400> 18396

agctttttat tcaatttcga gcgtctcaat atattacggg actcaatcag acatccgagt 60
 aaaaagttat cttcgtttga attagctctg aggttcagaa ttcaatttcg agcgtctaga 120
 tatattacgg gactcaatca gacatccgag caaaaagtta ttgtcgtttg aattagctca 180

gaacttcata attcaatttc gatcgtctca atatatttcg ggactcaatc agacatctga 240
 gtaaaaaagt tattgtcgtt tgaatttgct gagagcttca acattcaatt tcaagcgtct 300
 cgatctatta cgggactcaa tcagacattc gagtaaaaag ttattgtcgt ttgaattcgc 360
 tgagagcttc aacattcaat ttagagcgtc tcgatatatt a 401

<210> 18397
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 18397

tatatatgta ggactgatga tcgctgtgat tgacatattc ctcgggataa aggtagtgtt 60
 gccatgtttt caaagcctgt actaaggcat acaactcctt atcataagtt gaatagttaa 120
 gggtaggacc acttaacttt tcactaaaat aagcaattgg atggccttct tgcataca . 180
 cagccccaat cccaacattg gaagcatcac actcaatttc aaaagatttt tgaaagtttg 240
 gcaacacaag tatggggcat taagtaacct tt 272

<210> 18398
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 18398

agcttgttat tgaacaaggg aagctctcga gaaactcaaa tgatcataac ttatcacaca 60
 gatgttcgat tcaggcgcgt aatattccga gacgctcgaa attgaacaac gaatgttggt 120
 gagaaattca aatggtcaga acttgtcaca cggatgtccg attaaggcgc ataatatatc 180
 aagatgctcg aaactgaaca acgaatgctc ttgagaaatt caaatgggtca taacttgtca 240
 cacggatgac tgattcaggc gcattatata tggagacgct tgaaattgaa caacgaatgc 300
 tctcgagaaa ttcataaggt cataacttgt cacacggagg ttcgattcaa gtgcataata 360
 tatcgagacg ctcgaaattg aacaacgaat gct 393

<210> 18399
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18399

agcttctgtt gttcaatttc gagtgtcttg atatattatg cgcctgaatc tgacctccgt 60
gtgaaaactt atgaccattt gaatttctcg agagcttccg ttgttcaatt ttgagtgtct 120
cgatatatta tacgcctgae tcggacctcc gagtgaacg ttatgaccat ttgaatttct 180
cgagagattc cgttgttcaa tttcaagcgt ctcgataact cgtcgtctg aatcagaact 240
ctgtgtgaac acttatgacc attttgaatt ctcgagagct tcnncgtgtc aatttcgagc 300
gtcttcatat attatg 316

<210> 18400
<211> 263
<212> DNA
<213> Glycine max

<400> 18400
agcttctcta tatattatgc gcctgaatct gatcttctg tgaaaagcta tgaccatttg 60
aatttctcga gagcttccgt tgttcaattt cgagcgtctc gatattttat gcgcctgaat 120
cgggcattcg agtgaaaagt tatgaccatt tgaatttctc gagagcttcc gctgatccat 180
taccagggtc tcgattatta tgtgccgaaa ttggaatccc attaaatgta tgacatttga 240
atatttgaag cttcgttgta aat 263

<210> 18401
<211> 323
<212> DNA
<213> Glycine max

<400> 18401
agctttatgt tacatataaa aacgagtcta tattacctat tctattatgt ataaccaaaa 60
aatattatcc gctaacatt taatacttta tttatctgta aattacattc aatttatttg 120
catcaacgat ttttcatgc atgctatcca cgaatatgat gcttgttcca ttggaactct 180
caacatatat tttacattac aatcgatgga atttaattca gctaattgaa ccacgacata 240
taacatatta ctaacttcta atatctgatt ttattcttac atgtaaaaaa catatttcat 300
atgatattac attgattcaa atg 323

<210> 18402
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 18402

tcagcttatt atgcatctac tgctttaaac aaaagagtgc tccactacgc aacttttggc 60
 ttcaacttat agttggctac gtcttatgta aactcaaccc atgtatgttt tggagcattc 120
 cagttaataa aaaatgtttc tatacatatg tctgttggtt aaaaaaatta ttaagaaaag 180
 agtatgacca tagttatcaa ctgacataca gaaaaaaaaa tggttcattg gtggatcaat 240
 tctataatct tataatatta taataagcga gtatttaaaa taggactaaa ccttagcgta 300
 tgat 304

<210> 18403
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18403

agcttattgt cgnttgaatt tgatcaaagc ttctgtattc aattttgagc ctctctatct 60
 ataaaggcac tcaattatac atttgagtaa aaagttattg tcatttgaat tttctagggt 120
 cttatgtttt taatttcaag catctcgata tattacggga ctcagtcgga catccaagta 180
 aaaagatatg gccatttgaa tttccttgga tcatacagtt ttaatttcag gcgtttcaat 240
 attttacggg actcaatcag acatccgagt aacaaattat tgccgtttga atttactggg 300
 agcttncatt ttntaattcg agcgtctcag tatatgacgg gattcaatc 349

<210> 18404
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18404

agcttatgac cattcgaatt ttcgagagct tccgttggtc aatttcgagc gtctcgatat 60
 attatgtccc cgaatcggac atttgtgtga aaacttatga ccattcgaat ttctcgagag 120
 ctatcgttgt tcaatttcga gtgtctggat gagttatgtc cccgaatcgg acattcgtgt 180

ggaaagatat gaccattcaa atttgtccag aggggtccgtt gatcaatttc gtgcgtctcn 240
 atatattatg tccccaaatc gaacatccat gtgaaatgtt atgatcattc gaatttttcg 300
 agagcttccg ttgtgcaatt ccgagcggtt agatgagcta tgtccccgaa tgcacat 357

<210> 18405
 <211> 324
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18405

agcttgggtt ccaacgctct gttcaagctc tccccaaatc tagaggtaaa tctaggatct 60
 ctatcagata ctatgctaga ttgcacacca tgtaacctga caacctcact tatatacaaa 120
 gtgggtcaact tttccatgga aaatctgata ttaatgggaa tgaagtgagc aaacttagtc 180
 aatctatcaa caataaccca tataaaatct aaacctctca gggttctagg tagtcctacc 240
 acaaaatcca tggaaatgct gtcccacttn cactatggta tctctaacgc ttgtaactta 300
 cctgaaagtc tctgatgttc tatic 324

<210> 18406
 <211> 186
 <212> DNA
 <213> Glycine max
 <400> 18406

gaaagagtga tacgatcatg atgccacaca acatactagc cttgaacctc atgcgcctat 60
 cctgaggtgg ctaaagagcg aacaagctca cactgatcgc ccttcgctca ctgtgcgctt 120
 tctgaatggc aaacggtgcc tgacgcctgc tttaatgaat acgcctatgc gaagctcttg 180
 cagccg 186

<210> 18407
 <211> 436
 <212> DNA
 <213> Glycine max
 <400> 18407

tcgatggaga acaaccttag gatgcagagg gaacactttc agagatgtat aaattgtgca 60

agcaaaatag gtcacgtcta atataattta aattgtaagt tcaacatcgg ttttcaataa 120
aaataaacia aaaccaatgt taacaacttg atgttaacgt taacatctat tttattaaac 180
aaaccgatgg taacgaacta aggttaacat cggttttatg aaaaccgat gttaactaat 240
taatgttaac atcgggttatt ccaaaaccga tgttaaagtc acttcattaa catcggattt 300
cttctaacat gatgttaacg tataracatt attcacaatt atgccaccgc gttatcttaa 360
catcggattc taaaaaacgg atgtttataa agtctcatta tttatcatct tgccaccgtg 420
attctgcaac atagat 436

<210> 18408
<211> 445
<212> DNA
<213> Glycine max

<400> 18408
actcaagctt atgctgcaaa catttataat agaccacctc agcagtaaaa cttttctcaa 60
ctaaataatt atgacctttc aagcaataga tacaatccag gctggaggaa tcatccaaat 120
ctgagatgga caagtcctcc ataacaacia cagcctgccc ctctttttca gaatgttaat 180
gggtccaagca agccatatgt tctcctgca atgcagcaac aacagcaaca gtcacaacia 240
agacaaccag caactgaggc tctcctcaa ccttccttag aagagttagt gaggcaaattg 300
atcatccaga atatgcaatt tcagcaagag acaagagcct ccattcatag ttgacaaat 360
cagatggggc agatggctac tcagatgaat caagctcagt cccaaaattc tgacaaattg 420
acttcacaaa ctgtgcagaa tcta 445

<210> 18409
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18409

gcgatgtgtt ttatcttatg nggctcgcat atagcatatc ctcagcatat aacaccacga 60
atgagcactt actccactc aacttgtggt atacaccatc atcacctgct ttgacctcac 120
aatcatatga cggaacgacc tgacgaaacc tgtaatacca ttgatgggaa tctcgtctct 180
gacaatacat gaatccatct aggctgcaca cctacactt tgagtcacct gtaacacagc 240

tctatggatg catcacatca attgtgtgta caatgtcacc atttataaac gtacacctaa 300
ctacaatcta gcagttccta 320

<210> 18410
<211> 410
<212> DNA
<213> Glycine max

<400> 18410

agtatgatag atacgctgga tcagacctaa gctcttctc agaagcaatc ccattcacat 60
ccttcgttcc tcgaaactct gaaaaggcag caggagcacc accaccacca ccaccagcaa 120
acaacctcc tacggcactc aaagaaccgt ccacagttgg aggcgccgat ccactcctaa 180
aaatattaag ctctcgctca cgatcatcag cctcttgtct gcgttgctca cgaagtaaca 240
tccctatctc cttctccaat tcatcaccaa aagaacctc gttactcca agcataggct 300
ttcttcccaa ttcagacaac atttttcaaa atctcaattt gatcaccacc cacaatcat 360
caacctcata tagcagaaac tgatcactac ccaccaccag aaatcaaacc 410

<210> 18411
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18411

tgcatacggtt ttcccaattt agtttgngaa tcctcttct ctacctagnt aattctctct 60
tttcataatc ctcatatccc ctgagttggt acagggatta gagcacatat cctcaatgat 120
ctcgatggca tcaatagggg gttttaacat gaggttacc ttacaagcaa catctaaact 180
tgtcctattg tgtgaggaca ctctaccata gaatatatgg atcagtatct attgagtaat 240
gtcatggtgt ggacaacttc tggtaatctc tctacgagcc aaaaaccttg tttgcgacat 300
tccccctggt atagaaggta taaaaataat aaataatgga attctttgta agagctacaa 360
aactgacaac tctattagaa agtagaatct tgcaacctt ctcaagcgct ctcttggtct 420
ctatgtacaa agt 433

<210> 18412

<211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18412

tgtttttatat attttatatta tgnaaactttt tgcaatttta aatcaattat taattctagt 60
 tatalgactt alactlaaty atgcattgia tcaattaata ttttttattt galadaalyat 120
 atatacttaa tgattaacac tgaatattat taatcattct tcaagaatat acatacacat 180
 tcataatctc tagctcttct gtgtatttga tcttttaaagc tcacaaaaaa tctttcttta 240
 atgtaattga catgacatgg acttgatttc ggcttatata tatataagtt aatttggaga 300
 cacgacgatt gtcttctgtt taatcatcaa atttagttct taccaccaac attttttaat 360
 gacttgagtt gatata 376

<210> 18413
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 18413

tcgagtaaaa taaaagatta aatgggtctta atctattaca attttttaaa tgataaacta 60
 aaaaaagttg acacattaaa attaataagg gaaaagttaa tcttgatact tttcttgtat 120
 taacaaaaaa aaatttgaca ctaaaataaa tgagattagt aactatgcac agtaaaaaat 180
 tcaatcacia atatttttta aaataattat tctaaactat taacatccgt ttagtagagt 240
 aaacataaat gaaaaataaa taaattaaga tgaaaattta gaattaaagt atacaataaa 300
 agtatgaatc cccatatcat gtatattctc ttaattttca tcttctttta ttttcaaacy 360
 aa 362

<210> 18414
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 18414

tgtgcattca atatcctgat gaggggtgttc catatgttct caagattgga ctatatacat 60
 ttgctgcca agtttcatgg tcttgaggt gaagatctc ataagcatct taacgagttc 120

catattgttt gttccaccat gaagccccct aatgtccaag aagatcatat ctttctaaat 180
gcttttcctc attctctgga gggagtggca aaagattggc tatactacct tgctcccagg 240
tccattttca gctaggatga ccttaagagg gtgttcttgg agaaattctt cctgcctct 300
aggaccactg ccattagaaa agacatttca ggcatacaggc aacttagtgg agagagcttg 360
tatgagtact gggaaagatt caagatattg tgtgcaagat gtcttcacca ccagattctt 420
gagcaactcc ttct 434

<210> 18415
<211> 405
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18415

agctnggtgn attagnngna acgancttca agagtgcata cagtctcaag ggtaacgacg 60
aagctcgatt agtagtcata ctaaagagca gattgaggat attttaaatt caaagcagag 120
attaaagggg gaaaagaata tgcccaagga agatctacat attaagcagg ctgcagcgct 180
ggttgtcaaa cttgaaggaa attctctgtt ctcatctgga agtattgctg gagctgcata 240
aaaatactct gaagcttttg cattgtgtcc tatgagatca aggaaggaga gagttgttct 300
atacagtaat cgtgctcaat gccacctttt gctgcaacaa cttttggctg ccataagtga 360
tgctaccgct gcactatgtc tccataaacc tgtcaatcgt catgc 405

<210> 18416
<211> 400
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18416

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actggaagga atcagccaga tgggtggagta ttccatccca atttatccca tgtgcatgcc 120
atgtaagtta tggtgcataa tctgcattag caaacaacg cctaaacctt ggaatgatca 180
gaagatacta ttacaccttt gctagggggc ctttcttctg gctttcatca ctgctgaact 240
catcatcctc cttcactttg taccatgata cccacacct gnggcattta tggagttctt 300

caaaactcatg tctgtgcaat atgcaatcat tatagtattc atgtatnttt tataactccat 360

accattaga cacaatatct tcttcgcctg ataataactt 400

<210> 18417

<211> 379

<212> DNA

<213> Glycine max

<400> 18417

atatcattat gaatcacgtc ccaatatgtt gaagaaaata ggttgaaatc tgtttgggct 60

aggagccttg tgagatttca tgctcatgag agcatgcttg atttcctcct ttgtgactgg 120

ggcagtgagg gcttccttag cttcttggct aacataaga acattacgaa tatgaatgac 180

aacctcaaag gagttgtggg gaaggcaaaa gagattctag aagtaggatt aagcctctgc 240

cttcaagatg tttgcatccg agcaccaggt gccatcctcg agctttagat tgtgaataat 300

gttacgatgc ctacgcacaa tagtttgagt gtgaaaaaac ttagtggtgc ggtagcccg 360

tctgatccag tcctcacac 379

<210> 18418

<211> 332

<212> DNA

<213> Glycine max

<400> 18418

atcttcttat gatgcaaatg agtttgtagc tacctcatgc actcctctaa tgactatagc 60

atcatttctg gcgctaaact gctgggagtt ggaagccatc tcctcaatta aatttctggc 120

ttcagcagga gtcatgtctc caagggtcc accactagca gcatctatca tactcctctc 180

catattactg agtccttcat aaaaatattg gagaagaagt tgctccgaaa tcggatggcg 240

agggcaactg gcacatagtt ttttaaactc ctcccagtat tcatataggc tcctccact 300

gagttgtata atacctgaga tctccttctc ga 332

<210> 18419

<211> 399

<212> DNA

<213> Glycine max

<400> 18419

tcagtcttac acctctcatt cttattactt tttcaatatt gaaaaagtca taacaatgaa 60
 aaatgaaaag gtcgtcttat tcaaaacccc aaccaattat gaaatcccct atctcccact 120
 tcacacctcg gaacgcaccg ttcttataga gagaggcgct ttcacatctt cttaggctgg 180
 ggagaggaaa tgttcccatt ttttaggata ctccggggaa cagatatcca gtggagatga 240
 cggggtgggg cctgtagctc agaggattag agcaggtggc taagaaaccac gggtctgggg 300
 gttcgaatcc ctctcgcgc acaaccggcc aaaaaaggga aggatctttc cctctgtggg 360
 taggacaatc atgatcgggc tagcggaccc aaagctatg 399

<210> 18420
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18420

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 ttttgagggg aaatatgggg agaaaatgca atccatcatg cattttctta agaacttgca 120
 ggcatcacia ggagagttag agtagctaga tgaggccatg atctttactg caattatacc 180
 aactatgaat caagcacgta caataaaaca atttactctc aaatgttgga ataagtgctt 240
 acgatagatt ataggaacaa ttgactaatg ctcacagaaa catattgatc ttctttaata 300
 tttatataag caataaggaa ataattcatt atagagagta caaattgaat ggtactctaa 360
 ttcatgagta caacgtttta gataacatta aatcaaaat acattac 407

<210> 18421
 <211> 416
 <212> DNA
 <213> Glycine max
 <400> 18421

cggaaaagct ctgtcagctt cttcattcct tgaaattgat ccttgtctag taaggcgggt 60
 agaggagcag ctaaggacgc gtacccttta atgaaacgac gacagaaccc cgataatccc 120
 aagaaccctc gtagggcaca cgtattccga ggagtaggcc attgttgac cgcggttacc 180
 ttcgccggaa ctggttccac cctttttttc gataccaagt ggcccagata ttccacttgc 240

tgagttgcga aagagcacat tgataacttc atgacaaaagc tatgggtcagc taagacttgc 300
aatatctttc gcaggtgctc aaggtgggtcg gagaaggtct gactataaat caaaatatcg 360
tcgaagaaga cgattacgaa tttatgcata tacgggtccca aggtctgatt catagt 416

<210> 18422

<211> 406

<212> DNA

<213> Glycine

atttcgtttt aatgtggctc tggac agtga ttagaatac tgggtatcctg 60
aacttcttct attttccttt aaaactttct aatatagca gaagattatt tttcacggaa 120
aaggctttc aaagaagtcc aaacaagggc 180
tggatgagct aaaaaatgag gtggcactga ttgccaaact tcagcacctg aatcttgtaa 240
agcttcttgg ctgctgcatt gaacgagaag ac tgtt aatttatgaa tacatgccca 300
ggaccctta cgattttatt ctaaacaatct 360
cagc ttatacactt acagcg 406

<210> 18423

<211> 405

<212> DNA

<213> Glycine max

<400> 18423

agtctttgta ttctggaatc atttatccta tcttcgacag ccaatgggtg agtcccgtcc 60
aggtagtcac taagaaaacc ggcctcactg tcataaaaaa ttagaaggaa gagctgattc 120
ctactcgggt gcagaacatt tagagagtct gaattgacta taggaggctg aaccaggtta 180
ccaaaaagga ccattttcca ctgccattca ttgaccgat gcttgaatgc ttggcaggat 240
tatataggcg ctttataaga gatcttagca gagtagcctt tccactatct aacttgttgc 300
aaaaggagat ggagtttgac tttaatgata aatgcaaaga ggaactgact accaccctta 360
tcattcagcg acctgattgg acagcccat ttgagctaata gtgcg 405

<210> 18424

<211> 392

<212> DNA

<213> Glycine max

<400> 18424

tcactagctt ttgctagtgc tatcatctca aaatacatag tggactgagc taagatagtc 60
tgtttctttg acttccaaga aacagcncca ccaggtatgc taaatatata gctgctgggt 120
gctttggaat catctgaaag agtggttccaa tctgcacga tgtatccttc aactacagcg 180
ggaaaccttt tataatgtaa tccaagattt atgggtctta taaggtaact cattaccctt 240
tcaatagcgt gtcagtgtc catactaggt ctactggtaa acctgcataa taatcccaca 300
acataagcta tgtcgggtct agtacaatca gtggcatacc taaggctgcc aatgatactt 360
gcttactcag ttgccgtat accttcacca gt 392

<210> 18425

<211> 391

<212> DNA

<213> Glycine max

<400> 18425

gttatgcaag aagcgtcttc taggcattct ccaaatatca aataatatta gatagtacct 60
gagccaaata gcccccaat gctgggccaa tgatcaaacc tatgccccaa gctgcgctga 120
cctaaaatca aatctcactt tcgattatta ttatggaaat gtagttctaa aatctactac 180
tataacagag gtggatgatgc ttacagttga gagtcctata ccttggtggt cttgtcgaaa 240
aagttcatag gcataggcct gttaaataga ggagttaggc acacagaagc ttaaattggaa 300
gcgtgaaagc gatcgaacag ttatatattc aattgtgcac acacattcaa gacttgattt 360
ctgaaacatg agagtgctaa ctttgatacc t 391

<210> 18426

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18426

agtttccatg ttttaattacg agcgtgtcga tatactacgg gacacaatca gacatccgag 60
tccaaagcta ttgtcgtttg acttttctta gagctatcgt tttegatttc gagcgtctcg 120
atatattata gggctcaatc ggacatccga gttaaaagat attgccgctt gactattctt 180

agagattccg ttatcaatct cgagagtctc gatataattac agggctcaat cgaacatccg 240
 agttaaaagt tattgtcggt agatctctct cagagcttcc gttttcaatt acgagcgtct 300
 cgatatacta cgcgacacaa tcggacatcc gagtganaag ttattgtcgt gtgactcttc 360
 ttatagctgc cgctttcaat ctcgagcgtc tcgatatt 398

<210> 18427
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18427

tgcttgagca aattcaaagc actataactt ttgattctta tgtccgattg tgtcccgtat 60
 tatatcgaga tgctcgtaat tgaaaataga agctctgagc caattcaaac gacaataact 120
 tttgactcag atgtccgatt gtgtcccgtg gtatatcgag acgctcgaaa ttgaaaactg 180
 aagctctgag aaaaatctaa cgacaataac tttttactcg gatgtccgac tatgtcccga 240
 aatacatgga gacgctcgta attgagaact gaagctgtga gcaattcca acgacaataa 300
 ctttagactc ggatgtccga tngagtcccg aaatatatct agacgctcgt aattgaaaac 360
 agaagctctg agaaaa 376

<210> 18428
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18428

nttatgtggg ataccatagc taagcatagt ttccagttca ttattgtaaa attgacaacc 60
 gctctagtgt tagttttgcc taaccgaga gaaccctttg aggtgtattg tgatgcatca 120
 aagatggggt taggaggagt gttaatgcaa agtgaccaag tagtggccta tgcttctaga 180
 caactcaaga ctcagagaaa gaattatccc acccatgacg tggagttggc tgttgtgatt 240
 tttgccctta atatgtggag gcattacctg tttggctcca agttttatgt gtttagtgat 300
 cataagagca tgaagtactt gtttagttag aaagagccga acatgcgtca aaggaaatgg 360
 ttagagtttc gtaaggatta tgactttgag cttagctacc atcccggcaa agccaatgta 420

ttggttgatg ccttaa

436

<210> 18429

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18429

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gactcaatgg ttcctttgaa tccctttgtac catggatcca ttggcaccat tgtctcccca 120

ctcaataaac gcctaacatt ggcaatgatt tcccttggat tataattggg aatgtaagaa 180

ctgcagtcta tccaattcg ttgactacca ttgacaagaa ccaatggtat tactgggtatg 240

tacctgtaag gccagacaac aaaaattatg ttttaaggagac acatgcaaat gcagtagaaa 300

agacaaacag actctatcaa ctgaaaaact gtgtntgaat accatacaca aacaagggct 360

aaattgtaga tgtttcactc tcaaccgcac catcaaagat actgacaaaa acatgttgat 420

g 421

<210> 18430

<211> 396

<212> DNA

<213> Glycine max

<400> 18430

atcttgaagg taaactagat gccttgggta acctggtaac ccaactggcc atgaataaaa 60

aatatgcacc tgtcgccaga ctctgtgggt tatgtctctc tgccgaccac cacacggacc 120

tttgcccttc tgtgcaacaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180

tctacaacaa acatcctcaa cctcaacagc aaaatccgcc acaacaaaat agttatgacc 240

tctccagcaa caggtacaat cccggatgga ggaatcatcc caaccttaga tgggtcaaatc 300

cttcacaaca gcagcagcaa caacaacaac cttatttttaa aatgttgctg gcccaagcag 360

accatacatt ccaccaccaa tccagcaaca acaaca 396

<210> 18431

<211> 416

<212> DNA

<213> Glycine max

<400> 18431

tcttagtctc agatgatgca ggtgagtttg tagctactct catgctctcc tctaaagact 60
atagcataat ttctggcgct aaactgctga gagctggaag ccatcttggtc aatcgaattt 120
ccggratcag caggagtcac gtttccaagg actccaccac tggcatcata tatcactact 180
ctglocatat tactgagtgc ttcataaaaa tattagagaa caagctgctc cyaaatcaga 240
tggtgagggc aactggcaca tagttgttta aatctctccc agtactcata caagctctct 300
ccactgatgt gactaatacc tgagatatcc tttctgatgg ctgcgcgcct agaagcaggg 360
acatcttttt ctaagaatac tctcttaagg tcatcccagc tcgtgatgga ccatgg 416

<210> 18432

<211> 398

<212> DNA

<213> Glycine max

<400> 18432

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atcattatca tcattttttt ttctccgtca ttgaggtgcc acttgagctg ccaggtctct 120
ccacctttgg gcgtattctt ttgaaagatt cgtgccacct ttttgcacat gttctgtagt 180
tgcacccat ccgaagacat tatactgaca ctgcctaacg aaggcaatca ctaggtcctt 240
ccaagaattg actcggaag gttccaagtt agtgtgccaa gtaacagcta cccagtaag 300
actttcttgg aaggaatgta tcagcaatc ctcacttttt gcgtatgcct ccatcttccg 360
ataatacatc tttagatggt tcttggggca agtagtcc 398

<210> 18433

<211> 404

<212> DNA

<213> Glycine max

<400> 18433

tttagcttgg atttcctttt agtagggaat ctatccttcc taagatggag ccaaaccag 60
tcacctcat taagaactag ctcttttctt cctctattgc ctttagttga atacacctt 120
gtttggttct ctatttgggt cttaaccctc tcatgcatct tctttacaaa ttctgacct 180

gattccccctt ctttatgtat aaaagaagtg tccagtggga ggggaatgag gtctaacggt 240
 gttaggggat taaaccata gacaacctca aaaggggact gcttggtggt tctatgaacc 300
 ccactgttgt aggcaaattc tacatgagga agatactcat cccaagactt atggctgcct 360
 ttcagaagag cccttataag ggtggataaa gacctattca ctac 404

<210> 18434
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 18434

ttagcttgtg gtgcaaaaga ttacatctat acaaaggaat tttttatggg gcagcctcca 60
 agactccacc aagattccct gggtgagggtg ggacatagtc tgccactaa gagtaaaggt 120
 gggttagggg tcaaagattt gattaaatc aatgaggctt tgcttgctaa atgggggtgg 180
 gagttggaaa ataatcagaa tcagttgtgg gccagaattc tattgtctag atatggtggt 240
 tggagggatt tgatttctga tatgaactgc agtttagact ctcccttggtg gaaagacctc 300
 aaggatatct tcaagcagca gcatagcaac acaatttgca atcacctgaa gtggaagctg 360
 ggatcggga 369

<210> 18435
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18435

tgcatttatt gtttgcctt aagatgtgga ggcattacct atttggctcc aagtttgagg 60
 tgtttagtga tcataatagc cttagtactt gtttggtcag aaagagttga acatgcatca 120
 aaggagatgg ttagagtttc ttgaggatta tgattttgag ctaagctacc atcccaacaa 180
 agccaatgta gtggctaacc ccttaagtag gaaatcccta catatatatg ccttgatggt 240
 tagagaattg gatctcctaa aacaatttac agactttatc cttgtgtgtg aggttacccc 300
 taacaatgag agactaggag ctttgaggat tactagttag ttgttaggag agatcagata 360
 tggccaaaag gctgatacct ttctgaagac taagatagaa gct 403

<210> 18436

<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18436

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ataagagatt tcagatggac tttaatccta atcccacagc cgaccttttc acgagatctc 120
tacttaaccc tttgggttaa tgatcggcca aattatgctg agttctcaca gccctacatc 180
cccaaatttt gagataactc aaatttgggtg tctttttgtg ccaaagttca tatggcgtaa 240
ccttattcct tttgttagga attcggttca acaagtaaca ggctgccaac atagcctcac 300
cccanaatcc ttcacttgaa cctgaatagg ataacatgaa attcaccatt tctttcaagg 360
ttctattctt cctttcggct acaccattc 389

<210> 18437
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18437

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gtttatgagc aactcaggat tcaaaagatg tgacatggac cattgctgct atgttaaaaa 120
atatacta atgttatgtta tccttggtgt gtatgttgat gacatgttga ttgcaggatc 180
tagtatggca gaaattaaca ggttgaagca gcagttggca gaaaactttg aaatgaagga 240
tcttgggtcca gctaaacaaa tccttggtat gagaattctc agaaacatat cagaaggaat 300
tttgaagctg tctcaggaga aatatataca caagttgctt gacagggttt accttgagga 360
ttctaagacc aggaataccc ctttgggatc tcatttgaag ttntcaaaga agcaatcttt 420
gca 423

<210> 18438
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18438

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 tggttcttca tcttattctg cgctcatcgc aactgatact tcaactgtga aattgcttca 120
 tctctgtctt gtaattccct cctaaccgct tccacgtgaa cctccccctgg taaaaaccta 180
 cggagcatcg gtgggttgcg aacatagaca acttcaaacy gggtcattcc agatgacaca 240
 tgaaaattgg tattatacta atattcagcc caagatagcc aaaggaccca aattttgggt 300
 tggtcagcta gaaaacatct aananatggt tctaatacacc acttatgttt gcccatccat 360
 ttgaggatga tatgctgtgt tcatcttcag agct 394

<210> 18439
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18439

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 gaagaagaag acaaaaacaa tatttatact ggttcggcca caaacctgtc ctacatctag 120
 tccccaaagca acttgcggtt cttgagattt ctttcaacct tgtaaaatcc tttacaagcc 180
 aaagatccac aagggatgta ctctcccttg ttctctttga ataaccaagt ggatgtaccc 240
 tccacttgaa ctgatccaca agagatgtac cctctcttgt tctcagtata acaatcccca 300
 agtagatgta ccctctactt gtaccacana ggatgtaccc tccaatgtgt tgggacaaag 360
 aattctcagg cggttagtcc tttgaatctt tgtaa 395

<210> 18440
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 18440

agcttatata catctgcaac gtgaattctg ttacaactga aaagataact aactaattca 60
 gccaaactaac taactatttc tggttaaagct gtttatactg ctaagagccc ccctcaagct 120
 gggaatggat attcatcatt cccagcttgt tacaagggg ctgaaagggtg gctgggtggta 180
 aagcttttgggt gaatatgtcc gcgagttgca tggaagatga gaccggaagg agcttttacga 240

gacccgcaat gactttgtgg cggataatat ggcaatcgat ctcgatatgc ttagtgcggt 300
catggaaaac gggatttgtt gctatctgaa ttgcagattg gttgtcacia tataagggtg 360
ctggctgaat aaatgctaca ccaatgtctt ggagaatata cg 402

<210> 18441
<211> 396
<212> DNA
<213> Glycine max

<400> 18441

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ttttggctaa aatttacatg aggcagaagt agagtcaact tatggcgagg accaaaattg 120
ttgaccatgc aatagaaact agagttctga tttctatcta gtatctagag cagtatcatg 180
ttctgtggct tgcaattttt taaaaattga tgttcttatt tgacaatcct ttatttgatg 240
cagaaaatcc attatttgat aatgatcttt cctcattttt tttctcattt ctactactat 300
tctttatatc cataataatc aggtgctttt tcacaggtt tattaataac ttgaaccctt 360
tccttctttg ttttcattta taatgcatct aatcta 396

<210> 18442
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18442

tctttgagaa aacttccttg agaagctaga gcttatctac acacttcccc tctcataact 60
aagctcacct ccttgaaaag cttccttaag aagattccta aagaagctag aacttagcta 120
cacatacctc tctaattggt aagctcacct ccttgagatg agaagctaga gcttagctac 180
acaccccccta taatagctaa gctcaccccc atgacaaaat acatgaaaat acaaaacaaa 240
atccctactg cacagactac tcaaaatgcc tcaaaatata aggctaaaac cctatactac 300
tagaatggcc aaaatacaag gcccaaacga aggagaaacc tattctaata tttacaaaga 360
taagcggctt catacttagc ccatgggctc anaatctacc ctaaggctca tg 412

<210> 18443
<211> 338

<212> DNA
 <213> Glycine max
 <400> 18443

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 acaagattga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120
 ctctttttga tgcagatgga ggagccttgg atttgaygc aaatcctttt caagaaggag 180
 ggagtgatga ggacataacc aagggaagg accatgaagc acttgaaggc cccatgacca 240
 gaggcagact taaacaagcc caacacgtca tagagacaag gctggtcatt tgtatagctg 300
 ccattgatga tgattgaagg cccaagtga gaaagatg 338

<210> 18444
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18444

agcttgtatg gtagcntaag gctatattca gaaggaaaaa gtagactata atgaaatatt 60
 ctttttagta gtttgacaca cctccacacg tgtttggcta gccctagtgg caactcttga 120
 catggagtta aagcaattca gtgccaaaac tgtctttctc catggaagac aagaggaata 180
 cattatgatg ttatgatttg aaggttttga ggtggaagca aaggaaaatt ttgtctttag 240
 attgaagagg tctctntatg ggatgaagca atcaccaaag caatgggtgca agagatttga 300
 tgagttcatt atctcgcatg ggtacattag aagtctttat gactcatgtg tttatcatag 360
 caagggtggag gatggttccc acatatatct attactctct atggat 406

<210> 18445
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 18445

tatgctgcaa atatttaca tagacctcct caaccttatt agcataatca accacagtag 60
 aacaattatg acctttccag caacagatac aacctggat ggaggaatca cctaacctc 120
 agatgggtcca gccctcagca acaacagcag cctgctcctt ccttccaaaa tgctgctggc 180

ccaagcagac catacattcc tccaccaatc caacaacagc aacaacccca gaaacagcca 240
acagttgagg cccctccaca accttccctc gaagaacttg tgaggcaaat gactatgcag 300
aacatgcagt ttcagcaaga gaccagagcc tccattcaga gcttaaccaa tcagatggga 360
caattagcta ctcaattgaa tcaacaacag tcccagaatt ctgacaagct gccttctcaa 420
gct 423

<210> 18446
<211> 399
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18446

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ttactagggg gaattctact tttatgatgc ttgagaagtg cccttgataa tcgatgtgct 120
ttttgtagtc tggaatttga tgataggagc tattcaagtt gtcttattaa tgaagaatgg 180
gagagaggac aaaatatgtg tgattttttg cgtccttttt tttaaatcac agagttgata 240
tctggttctt cttatccaac gtctaatttg taattcatgc aagtgtggaa aattgaatgt 300
ntattgcttc aaaatttgag taataaggat gagttgatta gaacaatgga aattgatatg 360
aaaacaaagt ttgataaata ttggagtgat tatagcaat 399

<210> 18447
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18447

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ttctcccgaa cctgtccatg tttcatcttc ttctcaatca cttgcaatgg aatcactctc 120
tcggtcttct acgccaacta tatctcaaca ttccatggtc actcgtggaa aagctggaat 180
attcaaacca tagaaattat tctctgtgag caagcatcca atttttccag ttgaagaacc 240
aactagtgtg tccaaagcac tacaatgtca tcaatggaag caagccatgt cagaagaatt 300
taccgatctc atgaataatg gtacatgggc tctagtcnc agtcaaccac attntaatgt 360

cattggaaac aaatgggtgt ttcgttttaa aagaaatcca aatggatc 408

<210> 18448
<211> 419
<212> DNA
<213> Glycine max

<400> 18448

tgccctaatta acctgaaatt tataggaaat gattattaaa cacacaaaat agaattacta 60
agtatttggtt acctatcttt aactaaaaga acttatagca ctacaaaata accattaaat 120
gaaggagttt aatacaattt acataagttt tatacacaaa agttagttgt attcatcgac 180
taacacacac acacacaatg taagtgaaaa tcactattac accattaagt agcttcttac 240
tggatcattt tatcccaaaa tccaccattg gatagaaatg tcttgtcata gacatcatgt 300
gtataaagtg ttccattaat ccaaactttt gtggtacttt attaataac aattaaatat 360
taagattaac atagtatatt agaatcattt tattactttt attgttcaat ttatatgag 419

<210> 18449
<211> 378
<212> DNA
<213> Glycine max

<400> 18449

tacaatggtt gtatactagc acaaaaatgt gccattttta tcataatgct cattgatttt 60
cattttgatt tctttgtgtg tgtttatata ctccattaca atgaattggt ctactaaagt 120
tttttttttt ttttttcatt tgcaagcaag aatacatatg ctttttataa tttgctcgat 180
tatatttttt gtgacaaaa cataggctac catgcaaggg ttgcaaggtc cccaaccttg 240
gagattgcta ctcttattga agggacaatg tattttatac agaagacatg gagatgtatt 300
ggagccattc aaatatgccg gctatcccat gttgctgagt gctgttactg tggacaagga 360
tgacaacaat tttctttc 378

<210> 18450
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18450

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 tgtaaattga tatcttcata cctgcaaatt aatatccact tataatagag caatgatgga 120
 tatataatga agtactcata catgtaggta actgtaattt gaaattattt aaacgttctt 180
 tatcatatat aaagtaattc taattttattt tttgtataaa tatatatattc aattgttatg 240
 tlatggltta ctctttaaaa aaaaataatt taataaatat ctacgtacat tegtgaatat 300
 acatgaatag ntgtactaat actagggat gaccaaggat tactatttac taccattta 360
 tatacacgt cacatcttag taaaaata 388

<210> 18451
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18451

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 tgctgateta tctcctctgg tttcctccc ttctcttttg gtttaatctc agccaccct 120
 gactcttcac tntcagataa ggtagctgaa gttaaagaat caccttttaa ttttaattgc 180
 tgaggagaat tgccagccaa acgtctgaca aatcccaacc caagatcatt atcagtcaca 240
 tcagatacag aatctaaagc aggggagtca tcattacttg atacaatggg caaaaattg 300
 gttcttctgg cagtacggga gctcttngt ggcctctgcc agtggaac aggtggggaa 360
 gatgatcgtg cggatgccac a 381

<210> 18452
 <211> 418
 <212> DNA
 <213> Glycine max
 <400> 18452

agcttcctat tttaattaagt tcttcctcaa aactgtccta agcaaagttc ccaaagtcct 60
 attaacaact tccgtttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt 120
 agtgcccaac ttgctccaca aagtcctcca aaaatggctt atgaacttag agtcctatc 180
 actaacaatg ctcttggga aaccatggag tctcacaatc tccttgaaaa acaaatcagc 240

cacatgggaa gcatcatcaa tttttttaca tggaataaaa tgagccatct tagataacct 300
atcaacaacc acaaaaatgg aatctctacc attgcttggt gttggcagcc ccaaaacaaa 360
atccatggat aaatcattcc aaggatactc cggaattgca atggatatac aatcatga 418

<210> 18453
<211> 400
<212> DNA
<213> Glycine max

<400> 18453

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ttgttcattt tcgagcgtct gtatatgtga tgcgcctgaa tcggacatcc gagtgaagag 120
ttatgaccat ttgaatttct cgagagcttt cgatgtttaa ttttgagcgt ctgatataa 180
tataagcctg aatcggacat cagtgtgaaa acttatgacc attttaactt ctggagagct 240
tccgttggtc attttttagc gtctctatat gtgatgcgca tgagttggac atccgagtta 300
aaagttatga ccatttgaat ttctcaagag ctatgcgtgt tcaatttcga gcgcctcgat 360
atattataag cttgaatcgg acctgagtgt gaaaagtatg 400

<210> 18454
<211> 422
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18454

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gacctcaagg tgatggcact cacatttttc agattctgca ccgtttgtga aggcaatttg 120
tcagaatatt gggactgagc ttggttcaac tgagtagcct tctgccgtat ctgatttgtc 180
ggactctgaa tggaggctct tgtctcttgc tgaaatttca tattctggat ggtcatttgc 240
ctcactaact cctctatgga aggttgagaa ggggcctcag atgcttggtt tctttgttgt 300
tgctactgca ttggaggagg aacatatggc cttcttggac caacaacatt ctggaaggga 360
gggataggct cgtgntctac tgatgttggt gtggaggatt ttcccatctc acatttggat 420
ga 422

<210> 18455
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18455

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agctntctct tttgtgcaac tarcctcacc tctttttcag grgtagaatg aaact-gara 60
gggtcaggtg caggtgctgc tactgatgga ggcacttcaa attgtttgtc gyacctcaag 120
atgatggcac tcacatTTTT cggattctgc acagtttgtg aaggcaattt gtcagaattt 180
tgggactgag cttggttcaa ctgagtatcc atctgcccc a tctgattntt tagactctga 240
ataaagactc tggctctctg ctgaaattgc atattttgga tggtcatttg cctcactaca 300
cttctaagga aagttgagga ggggccttag ttgcttggtg tctttgttgg tgttgctatt 360
ggtgctgcat tggaggagga acatatgget tgctntgacc agcaacattc tgganaggag 420
ggacatg                                           427
  
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<210> 18456
 <211> 457
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18456

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actcgtccgg gatcttaagt caccgctgct gcagctatcc atgctttttg gccgtcgttg 60
cattggatat tttctcaaat gtatcttcat ccaccgattg ataaatgaga aagagagctt 120
tcttgtctct ctttcttgac tcttcaacg tctcatttac accttggett agcgaggctt 180
catcttgctc ctgaagcca ttctctacga tatccacac atcttgagct cctagtagcg 240
ccttcatctt gatactcaa ttatcatagt tgttctttga gagcatcgac atttggaag 300
gaaaacctcc attcgccatc ttttgaggat cttgaagctc tgataccact ttgctggata 360
taaggctctt tatgtttacg acaaatgttt acgaatattg gagactntga atagacattt 420
gataggaacg agaattcttt atggagaaga gaacttt                                           457
  
```

<210> 18457
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18457

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gtgatcatga gaggctgaat actttgttgg tcagaaagaa gttaacatgc ctcacacgag 120
atggtttgag tgtactgagg attatgatcg tgaactaagc taccatccct tcaatgccat 180
tgtagcggct aaccctttaa gtaagagatc cctacatata tatgccttga tggtagaga 240
attggatctc ctatagcagt ttagagactn tatccatgtg tgtgatgtac ccctaacaat 300
gcgagactaa gagctctgaa gattactact gagtagttag gagatatcag atacggccaa 360
taagctgac cttttctgaa gactaaca 388

<210> 18458
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18458

agctttgctt ctacttttta taccactaa acgtcaaaca agattccctt catgacaaaa 60
aaatgttctc tctaattctt agtcatcaca aatgtagaga gaccacata atagttaagg 120
gagtgaaatc ttattttctt catcttccaa aacattaaag tacatctgag agaagcttca 180
ctatgactca ttatttatat atttattatt tatgacaatc atagggttca agatccggtt 240
gattttctat cattgatcat ctaagaaact cttanaattt ttacatgtga tatcggaaca 300
tagattatca acattatgat tctctaataa tgatttattc tttctcaatt atgaatgaat 360
cctaattatc aaatgtaaaa atcttatttt cttctgcggc tatgtatgat atgttatta 419

<210> 18459
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18459

agcttggtgt taattcaaac aggaataact ttgtactcgg atgtctcatt atgtcccgta 60
atatatcgag atgcttgaaa ttgaaaacgg aagctcgtag catatgcaaa acacaataac 120

tttttactcg gatgtccgat tgtgtctcgt agtatatcga gacgctcggt attaaaaaca 180
 taacctcgta gcagattcaa acgaaaataa ctatttactc gaatgtttga ttgtgtccca 240
 tagtatatcg agacgctcgt aattgaaaac agaagctctt agaagatttt aacgacaata 300
 actgtttact cggatgtccg attgtgaccc gtaatatatc gagacgctgg aaattgagga 360
 cataagctct taagaaattc tatagacaac gactntatac tcggatgtac gatt 414

<210> 18460
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 18460

agcttaccaa tatatattca aatgaagttt atgtttcttt gtgttctata tgtgtgccct 60
 aagcatttaa atttattgac ctggaggata tgatcacttc atcatgtgtt gattagcata 120
 tcaatagttt gcatatggtc actgacaatg ctttattcca ataactaaaa tgaagaataa 180
 cttcatatga cttgtctctgc cagtattgtt gatgttgaga tcaagcctgt ggaagggtgaa 240
 ctttctaaat cactgttgga aaacaacaaa tgctatttac tggactgtgg tgctgaggtg 300
 tttgtctggg ttggctcgtg gacacaagtt gaagaacgaa aatcagcctg ccaagccgtt 360
 gaggtaaggc cattgtagaa tctataatct aattcatttc catttgtttg ttaaattgga 420
 ttcattaatt ct 432

<210> 18461
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18461

agctntgacc tcatttctat tatttcttat tcttgggtca ttgtatacaa gttgggcaag 60
 cgtggtctta cccaaccgt ccatgccac gatagaaagt actgacagct tgttatcagt 120
 gttagaagtg agccagttaa tgataatttc tttatcacc cctctgccac aaatatcact 180
 ttcaaccact gaagatgttg attgtggcac tttaccacca gatcctgac caactacaag 240
 atcactaggc tttttcaaac ctgagattat catccggctt gcaagtacag gtttgagatt 300
 cagattgagg ttgaacttgg agtctggagt gttgtatttc atccaagaca tcttctacgt 360

caagcatggc aactntgagc ttaataagcc agtctctcac ttgcatattt ccaaactggt 420
 tttgttcagc at 432

<210> 18462
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18462

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 tggattanga gtgtcaaact aatgaattgg ataatttttt tgaattgaaa tggatagcca 120
 atccatttat gatccattaa taatgtattg caaaaatcta atttatccat aacttatttc 180
 atagaaaaag gtccatccat tatattttat ttttttcaaa acaatatttt tctaaaacaa 240
 agtgtaatat ttgtacaaat tcttacctg aaataccata gaatccaata tttatctcat 300
 aaagacctat gtccaagtaa tgaacttgga actacttgat tcaactggatt gcaaaatatg 360
 ttggatgggt cattatctat ccaataacaa atggtaatcc aattcaacta atgtanttaa 420
 gtttattt 428

<210> 18463
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18463

tgtagggtta aagtctcatg attgtcacgt gctcatgtta caattgttag ccgnggctat 60
 acgagacatc ttgccaaaca aagtcagggt agcgataact cgctgtgct ttttattcca 120
 tgctatatgt agcaaagtca ttgatcctgt caagtttgat gagttggaaa atgaggccgc 180
 aattatactg tgccagatgg agatgtattt tccccctgct ttctttgaca tcatgattca 240
 cttgattgtg catctgggtc gagaaatcaa atgttgtggc cctgtttatc tactgtggat 300
 gtacccggct gagcgataca tgaagatctt aaaagggtat acaaagaatc tatatcatcc 360
 agaagcatct attgttgaga ggtacattgc agaagaagcc attgcaattt gttcataata 420
 cttatagaat gctaaacctg tt 442

<210> 18464
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18464

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 gttcttttatt aattccatag ctcttcttg ggtcttcaat ttgatctttc tccctgcaga 120
 agcatcaaga agctgcttgg actgcggtct caacccatca ataaaaatgt tgagttgtat 180
 cagatctgaa aatccatgag taggtgtctt tctcaataag cctctaaatc tttccaatgc 240
 ctcaactaaa gattcatctg gaaattcatg gaaggatgaa atggcagctt tcccttcage 300
 tgtcttagac tctgggaagt acttcttcaa gaatttctca actacttcat cccaagtctt 360
 gaggtatct tctttaaacg aatgaaacca cc 392

<210> 18465
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18465

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 tacgagacat cttgccaaac aaagtcaggt tagccataac tcgcctgtgc tttttcttcc 120
 atgccatatg tagcaaagtt gttgatcctg tcaagtttga tgaacttgaa aatgaggccg 180
 caattatact gagccagttg gagatgtatt ttccccctgc tttctttgac atcatgattc 240
 acttgattgt gcatctggtc agagaaatca aatggtgcgg tcctgtttat ttgcggtgga 300
 cgtacctggt tgagcaatac atgaagatct taaaagggtg tacaagaat ctatatcatc 360
 cagaagcatc tattggtgag aggtacatta cagaagaang ccattgaatt tgtttggaat 420
 atattg 426

<210> 18466
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18466

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ctcaaagcca cattaactgc gcaatgtctt ggaactacaa acaccttaag ggcattgcta 120
aagacaggtg agtcqcatca cttgtaccat tgtaagttca atattcacta cttctctttt 180
gtctattcca tgggtgacca aaaaaatatt gcaaaatttc aggttgatta catattaggt 240
gcaaaccocat taagaatgtc ttacatggta ggctatggtc cttactttcc caagagagtt 300
caccacagag gatcttcctt gccttcaata gaagctcatc cacaaccat a 351

<210> 18467
<211> 393
<212> DNA
<213> Glycine max

<400> 18467
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tttgggcatt agatcaaagt atctgtcgtt cttaaattatt tttaaactaa acaaattata 120
caataagttt tttattttgt acagaacaag aagtggctaa aaatattatt atttttttac 180
taaaagaagt tgtaaagta atagaaatca agttattatc attcagatgt taaaaaaaaa 240
tcttcaaatt aaactcttgg gaacatttgg ttgagttgag ctgaattttt ttcttatttg 300
aaaattatga tttcagaaga atttgattat tgaaaattat gattcatgta taaatatatt 360
tgattagttc taacataatt attggaaatt aaa 393

<210> 18468
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18468

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cttgatggtg agtgagttca acgcacgata atctacatag aagcgccacg ttccgtcgtg 120
cttcttgacc aagaggaccg gagaagagaa cgggctgtta ctangttgta tcagcccttt 180
ctgaagcatg gtctcgactt gctgctcaat ttctgtcttt tgaaaatgtg ggtatcgata 240

cggacggaca ttcaccggag tagcttgagg taaaagggtga atatgatggg ctgttggtgcg 300
 ttccgggtggt aagggtttgcg gttgtcggat aaggatatta tatctggtga gcaaagcttg 360
 aatggatggg tccacggggt cagatgaagt cgaatgttct ttcgagagga ctgtgatat 419

<210> 18469
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18469

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 gttggacctc ctagaagagt atggagtcag caccactttt aacatttctg atttaattcc 120
 ttttgcaggt ggagctgata ttgaggagga ggaactaaca gatttgaggt caaatccttt 180
 tcaaggggaa gggatgatg caatcctccc taggaaggga ccagtcacta gagccatgag 240
 caagaggctc caagaggatt gggctagagt tgctgaagaa ggcctangg ttctcatgaa 300
 cctcagggtg gatTTTTgag tccatgggcc aagtttgggt ccaattctct ttgtacatat 360
 tagactanga tgtcattata tntgatcctt gtattt 396

<210> 18470
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18470

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 tcttaagaag ggggggttga attaagatat tccaaactgt tcccctaata taaaaatcta 120
 tttctctttt tactcaagtt atgaattccc ttaaagacaa tcttcttaaa tattaattca 180
 aacgaagcaa cttgaatgtg aatataaagc aataataaat aaaagagatt aagggaagag 240
 aaaatgcaaa ctgagtttta tactgggtcg gccacacctt tgtgcctacg tccagtcctc 300
 aagcaacccg cttgagagtt ccactaactt gtaaattcct tttacaagtt ctaaacacac 360
 aaggacaatc cttcctttgt gtttagagat cctttacaac aagagactca cagtctctta 420
 atccctttag agaatga 437

<210> 18471
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18471

actgtcaatt lcagcgtctc gaacagctcg gttttattca gacatccgac taaaaagata 60
 tcgtcgtttg aatttggtcg gagcttcaac attcaattta cagcgtctcg atatatgacg 120
 ggactcaatc agacatccga gtaaaaactt attctcgctt caatttgctc tgagagttca 180
 gaattgaatt tcgagcgtct agatatatta cgggactcaa tcaaacgtct gagtaaaaag 240
 ttattatcgt ttgaattagc tcggaacctc aaaattcaat tttgagcgtc tcgatatatt 300
 acgggactca atcacacatc tgagtgaaaa agttattgtc gtttgaattt gctgaaagct 360
 tcaactttca atttcaagcg tctcgatata ttacaggact cactcagaca tccgagt 417

<210> 18472
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18472

tggaatggga agaagccatc aacaaagcac ctaagggctt ttggatctat atgctacatt 60
 catattctag acgtgaagag gcacaagctt gaagacaaga ctatacgagg tatcttcctt 120
 gggatatgca atatctctaa gggctaccgt gtctacaact tgcaaaactaa gaaactcatc 180
 atcggctcgag atgttgaagt tgatgggtac gctntttgga attgggatga agaaaaagtg 240
 gagaagaacg ttcttatacc tgctcgacta tctcaagaag aagctgagga agaagatcca 300
 ggtgaaccac cttcacctct accataacaa caagatcaag aactagcatc accagagttt 360
 actccaagac gagtaagatc tttggtggac atgtatgaaa cctgtaactn ggtcatactt 420
 gaacctggaa gc 432

<210> 18473
 <211> 436
 <212> DNA
 <213> Glycine max

[illegible]

<210>	18474	
<211>	382	-
<212>	DNA	
<213>	Glycine max	

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cctcacctta	tgaccagaaa	tggtacagca	aaccactgag	aaagttaagt	taattcataa	120
aaggataaga	actgctcata	gtaggcagaa	aagttatcat	gataagagga	ggaaagatct	180
ggaattcgag	gttggtgatc	atgtattctt	gagagtcact	acatggactg	gggttggtcg	240
agcattgaga	tcccgaaaac	tcacacctca	ctttaaatgt	cctttacaag	tcttaagagg	300
actgtgcctg	tggcatacca	aagttgacta	ccccatctc	tttctaatat	tcacaatgtc	360
gttgatgtgt	ctgaacttcg	ta				382

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<223>      unsure at all n locations
<400>      18475
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7774

aagctgaaaa gctagaattg gtgcacacag atgttttggg gccagcccca gtgaaatctg 180
 ttggaaactc acgctattat gtcaccttta tcgacgactc taccagaaag gtatgggttt 240
 attttcttaa aaataaatct gatgtgttct ctgtgtttaa aaggtggaaa acagaagttg 300
 aaaatcagac aggtctaaag gttaaaagtc tgaaatctga caatgggtgg gagtatgata 360
 ctcatgagtt taaagacttc tgttca 386

<210> 18476
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 18476

taagcttatg ctactgcatt tgaataagta catttataag tttatttgct taaaatcaaa 60
 tgaaatgtat gggattatct cgttgaggt ttcttttatt gtaactcatc actttgtata 120
 atgctagcaa tttcataaag gtcaaaatgc ttgtggttga ccataacttc ttattgcagg 180
 gcactatgtt cccgatgtta ttgtggctgc attaatgga attgtaactg gttggtgcac 240
 aggccctcta atgcccataat gtgggcattg gttagccagg tcatccatct tgcaatttct 300
 gctacatctt agtgtgtttg ctttggcatt atcatctcag ttctttctct acactatgtc 360
 tgcgcctaag aggattgttt ttcagcata 389

<210> 18477
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18477

nntgggctga ggacctatat aacagttcca atgtttttgt ttanggagtt ttttttcgga 60
 gaggagaata attctaggat tttagaattt cagtttttat tactgttcat gcacactgtt 120
 cacgtagaat aaaattcatt ttttgcaaat catctctaata ccatacattt tttaatatta 180
 tgctcttttt attttctttt gatatacttt gtgctttaac gacttgaatt caatatgatt 240
 ttgtttatca attatttttg gatttgtaca ttacttatat gaaattttat aagtttcttt 300
 ttttagttag tatttcacta ggttttataa taattaatta atcaaagacg tctntaaata 360
 gacttttata taggctcgt 379

<210> 18478
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 18478

cgcttatgaa gatacaataa tctctttgt ccaagcatga agcccttctc attatcatg 60
 ctatcatgga acttcttggc ctttacttag aagaacttgg cattctcata cgcttctatg 120
 cggatctcat ctaactcact caagtgtac tatctctcct caacagcttg atccatcgag 180
 aagatgcagg tcttcactgc ccagtatgct ttgagctcaa tctacactgg aagatgacat 240
 gcctttccat agacaacgcg ataaggagac attcctatgg gcgctttgta tgcaatccta 300
 tatgccccaa gagcatcagc catcctagtg cgtcaatctt tactgcttgg ctgcacaatc 360
 atctctaggc ttctcttgat ctccct 386

<210> 18479
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18479

ctgcagcttt tagncattct tgtagnagcn ccaacgacat ggattctaaa tctttggttt 60
 cctcgactgc cataacaatg tgctcaaatt taggatctaa cgagcatagt atcttcccca 120
 tgattcttac atgctctaaa ttctcaccat gtctttatac ttgaggtgaa acaacgataa 180
 ttcttgaaag gaactgggaa atggacgtca actctttcat atgtaatgat atagactctg 240
 ctatgagcac atgcacagaa acgctcttta gttgacattg gttatcccag cctaccattt 300
 tacgggtggcg cgaacaggcc aatatgatga cgtcgaagcg ttagtctcca agggagaaaa 360
 ctagcagagt caccaccaac gtgtatttga cgaaaac 397

<210> 18480
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18480

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 ctaccagtga cagcatggat aatcgcataa aagggttcc cagaggtctt gcaatggata 120
 aagacagggt taagaagcaa aacctctgca aatcctatag ccttctgcaa tgcagaagca 180
 cttggtgcag tgaatagagt ttttatgtca gtgccaatac caagggcagg gtggtcacca 240
 acacggggga cagcatggct caccatggct agcatttcgg gtgcgttctc actglatgca 300
 atgaccttgc atgttttctc atctaaggcc aacaagcacc caagaagctg aatcatcttg 360
 cctttctgca tgtg 374

<210> 18481
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 18481
 aggaatccga ggacctcttt agatttggtt atgaagaccg caaataggct gttggagtta 60
 ataaattcac cactgatttc tttggaatac agcttttctt gaacaaaatg gcaatcaatc 120
 tctacatgct tagttctcat gacatacaag attagacgag atgtgaagag ctgcctgact 180
 atcagaatac aacttcatct gtggaacatc aaaaaattgt aattcttgaa gttgtttaat 240
 ccacacgaat acacaagtaa caagagccat agctctatat tctgcttatg cacttgatcc 300
 agcaacaaca ctctgttget tgcctttcca atagacaata ttcccaaaga ggatacac 358

<210> 18482
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 18482
 acctctcaca aaggagaaga caaagtaa atgtgtgtgc tccaaactct taagagggtga 60
 gtttgaatcc ttacatatga aagagtcgga gtccatttct gattattttt caagaattcc 120
 cgtagtttca aatcaactag aaagaaatgg tgagaagtta aaagatgtaa gaattatgga 180
 gaagatacta tgctcgttag atcccaaatt tgtgcacatt gttgtgacaa tcaaggaaac 240
 caagatttta gaaactatga tgatagaaaa acttcaagga tcaactgcaag cttatgagga 300
 gaagcataag aagaagcaaa agatcactga gaaaatcttc aagatgcaac taaaggagaa 360

cgaagatagt cgaggaaatg agagaagtca acgaggtgga ggtcgcggct gaagataggt 420
acgacgtgga aacagtggac g 441

<210> 18483
<211> 385
<212> DNA
<213> Glycine max
<400> 18483

ttaagctttt taatattatt ttccggcgct cgagcgaaac ccattcttac cccaagcttt 60
taataatatg gccgcgatct gtcattacgt gcgactatct ccactataga aagaaaaagg 120
agaagaacaa gcaaatccac acatactatt gtgataaata ctagaaatta tggcttttcta 180
catatacata tatacgtcat tacaacgata cttatcaact gtagcaaaga atgaaacttc 240
ttagaagtca taatatgaag aaatcaatat gtctagatac ccccttttct atggacaaaa 300
gagctaattg ataaaggaag catcgtactg atccattaac gcgcgtttga accgatacga 360
taagaactgc ttacttatct catga 385

<210> 18484
<211> 391
<212> DNA
<213> Glycine max
<400> 18484

tcaagcttat gctgcaaaca attacaatag acctcttcaa cctcaacagc aaaatcaacc 60
acagcagaat aattatgacc tctccagcaa cagatacaat cccggatgga agaatacct 120
taatctcaga tggcttagcc ctcaacaaca acaacagcag cctgtctcct ccttccaaaa 180
tggttctggc ccaagcagac catacattcc tccaccaatc caacaacatc aacagcccca 240
gaaacagcaa aaagttgagg ctctcttgca accttccctc aaagaacttg tgaggcaaatt 300
gactatgcaa aacatgcagt ttcaacaaga gaccagagcc tccattcaga gcttaactaa 360
ccagaatggg aaaatggcta cacaattaaa t 391

<210> 18485
<211> 340
<212> DNA
<213> Glycine max

<400> 18485

agccttttga gaacggccag agaccagacc acttaggtac tccaccaagc attccatatt 60
gcacgacgtg ggactaaggc ataccataac accccagtcc ctatcactag ctgacgactg 120
cccaaacttt ttgagctata tataagccat atctcctatc gatgtgggac taaaccacca 180
cacytycggc tycaaltgag gcaaccgccc cagaggccac aactaaggtg ggctagggat 240
gatagcaatg aacgctgatg tgcaacactc tccctcgtgc acagagatac cagcatggag 300
agaggcacat gcaggaggcc caacaacaga tctaggataa 340

<210> 18486

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18486

tctaactnta tacaggaatg aagctctgat accacttatt ggtttagtga cctcagatat 60
cttaagaagg ggggattgaa ttaagatatc acaaactatt cccaattaa aaattctact 120
tttaacttaa cccaacaatc caagattcct tttaaacaag aactcctaga taataatgca 180
aattaatctt actaaataaa aaataataag caataaacag taaaggagtt taagggaaga 240
gaaaatgcaa actcagattt atactggttc ggccacaccc ttgtgcctac gtccagtccc 300
caagcaaccc gcttgagagt tccactatct tgcaaaatcc atttacaaga tctgaaccac 360
acaaggacaa cttttctttt gtttcagatt tctttcaaca agaggccctc ggtctcttaa 420
tccct 425

<210> 18487

<211> 338

<212> DNA

<213> Glycine max

<400> 18487

agctttttaa ctttgtacaa taataaagct actgaataga agtggcctca gaaatcttaa 60
agctctgata ccacttggtg gacaagtggc ctcaaaaatc ttaagaaaga gggggttgaa 120
ttaagatttt acaaactatt cctgaattaa aatttctata tagattttga cccaagtcct 180

aagattcctt ttaaaatgaa tttctaaata ataattcaaa ttaaacttac tgaatagaaa 240
 taataagcaa caataaataa aagagtttga gggaagagag aatgcaaaca cagttttata 300
 ctggtttggc aaagtcatt gcttacgtcc agtcccca 338

<210> 18488
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18488

ntaggaatga cttggattat atccttggtg ttctgcattt ggtataatcc atgcttcaat 60
 ttagccaaac caatcatctt caaggacttc atttctata tttggcaatg agaattggaa 120
 aaagtgagag agtatttttag tgaagacaaa agcttgagaga ttgaaataag attgaatttg 180
 aagtttggaa cataaagaac atcatgtata atgaaatgtg gcgataactg cacatttctt 240
 gaaatatgag caaaaacaat ggaaccattg ggtaagtgga tacgcacagg ttgtattttg 300
 gaaaagctta caaaattatc aaaggaacat gtaatgtggt ctgtggcccc agagtcaata 360
 atccaggggg tgcaattaga aaaacaatgt gcagtgtgtg cattagacaa 410

<210> 18489
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18489

tggcatccaa aaccattgtg gaagcaatat gttgagcttc agccattttg gttttctgta 60
 gaaggctctt tatgtattta ctttgagtta gaagaataga gccatcaatt agagtcttga 120
 cttcaaattc caaaaaatag tccagcttcc caagttgttt aagtgaaaaa ttagaatgaa 180
 gtttgataat aaattgttgg actaagttga tagaactacc agtgattata atatcatcaa 240
 catacaccaa aagataaatg atatgagagg tatctttgaa aacaaagaga gatgggtcac 300
 acttgcttgc agaanaacca agatgcaaga gagtagattn tagcctgtca aaccact 357

<210> 18490
 <211> 388
 <212> DNA

<213> Glycine max

<400> 18490

actcagcttc tatagaaggt cgtcctatct tctactttgc ttacctctca atgagctggt 60
gaagaagaat gtggcattta cctgagggtga aaaacaagag caagcctttg ctttgctcaa 120
agaaaagcct actaaggrac ctgttctagc tcttcctgac ttttctaaaa cttttgagct 180
aaaatgtgat gcctctggag tgggagttgg agctgtattg ttacaacgtg ggcaccctat 240
tgcttatttt agtgaaaaac ttcatagtgc caccctcaac taccocacct atgataaaga 300
gctttatgcc ttaataagag cctccaaaac ttgtgaacat taccttggtt ccaaggaatt 360
tgtcattcat agtgatcatc agtcactt 388

<210> 18491

<211> 306

<212> DNA

<213> Glycine max

<400> 18491

ctcactatat ggcgaatcga gctcgcaccc ggtgaccgt ctagacgaca cctgaggaca 60
tgcggtacg agagctcgat tgcgcctat agagagccgt acgtcaacac actgatcgct 120
gttttactgc ttaaagactg atacaatcat aacttcacac aacatactag ctttacacat 180
catgcgtatt tctcagctg cctaattagc gaacatgctc acactaatcg ccttcgcta 240
actgtgcgca ttctaaatgg caaacctctc ctgacacctg atttaatgat tacgcctacg 300
cgaacc 306

<210> 18492

<211> 236

<212> DNA

<213> Glycine max

<400> 18492

cgtgctctat tgcgcatat agagagccgg acgtcatcac ggtggctgct gttttactgc 60
ggaaagagtg atacgatcat gacgccacac aacatactag ccttgacact catgcgtctt 120
tcctgagggtg cctaattagc gaacatgctc acatcgatcg cccttcgctc actgtgcgct 180
ttctgaatgg caaacgctgc ctgacgcctg ctttaatgat tacgcctacg cgaagc 236

<210> 18493
 <211> 420
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18493

tgtagaagca aaaagccagt tatggcttnc aagggtggatt ttatatttgt telacgactc 60
 agtctcatgg ggtttcttgg actacatgct gcaaagaatg agattctgtc ccaaattggag 120
 acactgggatt tcaacctgcc tcaattcagc aaccatctcc attcttggtta atggcagccc 180
 tacaaaggag tttgctccta ctagaggctt gaggcaaggg gatccttttag ccccttact 240
 tttcaatata gttggagaag gcatcacagg attgatgagg gaagcagttc agaaaaactt 300
 atacaaaagt tacatggttg ggaagacaaa ggaaccatt aatattttac aatatgcaga 360
 tgacacagtc tttgtgggtg aagctgfttg ggagaatgtc ttagtttgat agctatgtc 420

<210> 18494
 <211> 422
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18494

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 agttgctgca catgatgtcc aacgttatgt caaagaataa gatcgggctg cacaatgcac 120
 aacgcatgat aaagtgtcaa atgaagaatt gaagctgcag gattcacgat gtcggataca 180
 atgtccagga catcctgccc gaaaatactg gagttgctga aagcattgaa gctgcatgat 240
 ccacgatgtc ggacacgatg tcttgacatc cggcccga aa atactggaca tataaatctg 300
 ttatatcttt aacagattat tgtgcagtta gcaagagatg agatgatcta tctttaggaa 360
 cgaattanaa gataattaaa gctcgtatta caaactacaa gagtcgttca gggatgaaag 420
 at 422

<210> 18495
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18495

tccttgagaa tcttctttga gaagcttctt tgagaaacta gagcttagct acacatacac 60
ctctaatagc taagctcacc tccttgagat gagaagctag agcttagcta cacacacccc 120
tctaatagcc aagctcacc ccattgcaaa atatattgaa atacaaaaaa ttcctacta 180
caaagactac tcaaatgcc ctaaatata aggcataaac cctatactac tagaalgacc 240
aaaatacaag gctcaaaaga aggaaaacct attctaatat ttacaaagac aagtggaccc 300
aaccttggcc catgggctca gaaactaccc tgaggttcat gagaatctta gggccttctt 360
cagcagctct aacctacntc ctttggagcc 390

<210> 18496
<211> 424
<212> DNA
<213> Glycine max

<400> 18496

tggctaaggc tagactgcaa tattcagcct ctgtactgga ccttgcaaca acagactgtt 60
tctttgacca ccaagaaact aaatttgagc caaaaatgat ggctgcacca gaagttgacc 120
ttctgtgtgc atcatcacag taagcattaa ctgtaaaggg aggtccagta gaaggaggga 180
gaatcttcca accaaagttg atggtaccag ctagatacct gagaattcgt tttactgctg 240
cccaatgctg ctgagttgga tctgacatgt actggcagac tttgttaaca gtgaaactga 300
tttcaggctg agtgatgggt gcatactgca aggcctccac aataaacctg tctagagtgg 360
ggtcaggcaa aggcctacac cctgacttag ttaacttgaa gcctcaacca ttggagaaga 420
aata 424

<210> 18497
<211> 422
<212> DNA
<213> Glycine max

<400> 18497

tcatccaact taagcatgga aagaaggcat tatattctca tacacataag atttctaaaa 60
acttttcacc cttatcgacg attgtaaaaa gcttttaatg gaagtcatga aaatgaaggc 120
ccctcagaag cattaactgg aaaccaagtt catgatcgcg taaaggaaat tgtaaccgtg 180

tttggcaagt cccagaagaa gacatcatct cccaacaaca tgtggaagaa atgctcaata 240
 tttttgatct tccatactgg tctgatctat atgtgcactg tctagatgtt atgcatgtgg 300
 agaaaaatgt gtgtgatagt ttaattggta ctcttcttaa cattaaaggg aagacaaagg 360
 atggtttgaa atttcgtcaa gacttggttg acatgggaat acgagacagt tgcattccat 420
 at 422

<210> 18498
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18498

tgaatcatgt gaaaataaat caatcattct gtatatgtat cacaaattat atatattgat 60
 aagaattaca aattaaaatc agcaaactct taatttcgtt taattaatat gtgaaaacat 120
 ttatgagcta agcttaacgt gaattaatct ttttttaatc catataaatt gaacacaata 180
 ccataaattt ataacattca tatattctac tcaatcaact gaactaaaac cactgataac 240
 taattttaat aaaatgatca tttattttta ccaatttcac agaaaaactt ttgactaaga 300
 aaatttaact taattgggtg agcatgtgtg aattgctata nactactagt tatgaacata 360
 aatatgttta taataactta tgcattgtgtg tccaatgtat ctctgtataa ac 412

<210> 18499
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18499

tgcattgggtg cgctccgtct ggcccgtgct tatacctgat gagagaagat catcaagttt 60
 gagggctgtt accatggcca tgctgacctt tttcttggtt aggcaggtag tggagttgcc 120
 accttaggac ttcttgatc tcccggtgtc cccaaagctg ccacttttga aacccttaca 180
 gcccctaca atgacaccga ggccattgag aaactcttcg aggccaacaa aggagaaatt 240
 gccgcagttt tctcgaacc tgttggttga aacgctggtt tcattgttcc taagcctgat 300
 tttcatagtt tcttgcgcaa gatcaccaag gagaacaata cccttcttgt gtttgatgaa 360

gtcatgactg gatttcgctc gtcatatgga ggtgctcaag atattttggc ataac 415

<210> 18500
<211> 415
<212> DNA
<213> Glycine max

<400> 18500

tgaaggttaa ccagatgtct aggttaacct ggtaacccat ctggccgtga ataaaaaatc 60
tgcacctgtc gccagactct gtggtttatg ctccctctgcc gaccaccaca caaacctttg 120
cccttctgtg ctacaatctg aagcaattga atatcttgaa gcttatgctg caaacatcta 180
caatagacct cctcaacctc aacatcaaaa tcagccacaa cagaacaatt atgacctctc 240
cagcaacagg tacaatcccg ggtggaggaa tcatcccaac cttagatggg tgaatccttc 300
acaacaacag caacaacaac aataacctta ttttcagaat gctgctggcc caagcagacc 360
atacgttcct ccaccaatct agcaacaaca acaacaacac agccccaaat atagc 415

<210> 18501
<211> 199
<212> DNA
<213> Glycine max

<400> 18501

agcgtctttc gtatcttgac actagctatc catctgacat tcttctgaga tcctaccttc 60
gtgaattttc caaccgtgaa tgactctaac accacctctg ccattcattg acttcattgc 120
tgtcaccatc cgatgtccac atctttgatg ccttattccg acctcatctt ctgtgcagaa 180
tacacgtgct gctgaatta 199

<210> 18502
<211> 381
<212> DNA
<213> Glycine max

<400> 18502

ttgatgcaac atatggagag ttaatgaaac aacgatattt gcgctccatg agaggctgga 60
tcaaattggag aatagagatc ataatgaaga agaaaggagg agaagagggg atgatgggtg 120
tcctagacaa aaccgaattg atggtattaa actcaacatt cctccattta aaggaaagaa 180

tgatccggag gcttacttgg agtgggagat gaaaatagag catgttttct catgccacaa 240
ctatgaggag gaccagaatg tgaagcttgc cgccacggag ttttccgact atgctcttgt 300
gtggtggaac aagctacaac aggagagagc aagaaatgaa gagccaatgg ttgatacatg 360
gacggagatg 'aaaagatcat g 381

<210> 18503
<211> 420
<212> DNA
<213> Glycine max

<400> 18503

taacaatcag tgtcatacta ttgatcaaaa caaagcttgt ataaatatgc aatactagac 60
tcaaaatatg caacaaacac tatacctaaa tcagtgtcac agaaatcgga agaaaatatt 120
ttatccaagc acaaacttca agccttatto catgtattgg ggggaagtta tggctggcca 180
tatgggtaga ggtgtcatag aggagcaagt atggaggaag ggaccttgga ctgctgaaga 240
ggacaggttg cttgctgagt atgtcagggt gcatggtgaa ggtagatgga actctgttgc 300
tacgcttgca agtaagaaac accaaaacttt attcactgtt ttgtttctta atatatatga 360
ttggattttc acattttataa ctgacaatat agcataaaaa cactgatatt gttttcaact 420

<210> 18504
<211> 411
<212> DNA
<213> Glycine max

<400> 18504

cgcttctaca gaaatgtagt tgtcgtaaca ttatttcctt ataacagtaa aagtactgtc 60
gactgaaaca ataaagatct agccatattc agcaaagct gatgctttct atccaccaca 120
aaatactgca gtggtctata gggacaactg aattgatgca gggtagcctg ctgttggaga 180
aatgtacgca atgccaattc aagagcatta acatatctga gctttttaat ttgaaatcca 240
aattgagtct ttattaatgc aaaaaaatcc ttaaccttat gagttgcttc actcttagta 300
tggagcaggt aaatccatgt taacctacta tagtcatcca caatggtagg aacatagtgc 360
attccttgac gtgtgactgt atgataagga ccccatactc cacatgaatg a 411

<210> 18505

<211> 325
 <212> DNA
 <213> Glycine max

<400> 18505

tttgatcgtc tcgatatata atgcgcctga gtcgcacatc cgagttaaaa gttatgaacc 60
 ttggaatata tcgagagcct ccattgttca atttcgagcc tctcaatata ttatgcgcct 120
 gaatctgacc tccgtgtgga aagttatgac catttgaatt tctcgacagc tcccatgtt 180
 caatttcgag cgtctcgata tattatgtgc ctgaatcgga ccttcgagtg aaaagttatg 240
 accatgtgaa tttctcgaga gcttccgttg ttcaatttcg gcgctctgat atattatgtg 300
 ctgatcggac atccagtga agtat 325

<210> 18506
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18506

actcggaggc ctatttggtt cntatatata gaaacgcttg agattgagca acggaagctc 60
 tcgtgaaatc caaatggtca taactttcaa ctcggaggtc cgattcaggc gcttaatata 120
 tcgagatgct cgaaattgaa caacggaagc tctcgagata ttcaaattgat cataactnnt 180
 ctcacgtagg ttagacttac ggcataata tatcgagacg ctcgatattg aacaacggaa 240
 gctctcgaaa attcacatgg tcataacctt tcaactcgag gtccgattca tgcgcataat 300
 atatcaa 307

<210> 18507
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18507

actcgaagat tacacgggta tcttctagcc aatatatttc tttgtgatta tatatgnnga 60
 aatgagagat agatntagta gttgggttgat gaacgaggta atattatgaa ttgagttatt 120
 ctccaccatt tgtaattata tgggttaaatt ataaacttaa tgatgattta ttttagtaat 180

tagaaacaca attaattagc aaaacgtgtg agaaagtcac gtgtgaactt tccttttttt 240
aatttattct cctatttata tactatagat atagatataa atgttataag tataacaataa 300
gattatctga ctgtacagta aaaaacagat tatttcgatt cttttgttcg gctttaattt 360
agttgaatct agattttttt gaatcataat agtgtttatg ttntgaaatg gttctaacac 420
cctataaata actattgcct ctaaattattg aactaaacta aatc 464

<210> 18508
<211> 319
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18508

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cctctcccca acatcaatan ggtggtcgat gaagcgccg aattcaagt ctaaccttct 120
tggatgccta cttcggatac aactagatta gaatgcatcc tctagatgag gagaanatga 180
aattcataac taanaatgtc aacttttgtt acaaggtcat accattcggc ctaaaaaatg 240
caagcgcgac attccaatga ccaatggacc gagtcttcaa caacagatcg gacgaaatgt 300
caggtatata tggatgaca 319

<210> 18509
<211> 436
<212> DNA
<213> Glycine max
<400> 18509

ttcttgtgtt ttgtaatgga ctcttctatt gcttgagtct cacaggttgg ctaggggtgt 60
ttaactcatc tgaacgcact tggagtgttc tttagtacc tccaccaag tgcccagaga 120
atTTTTTtgc caaaaattgg tggaggaggaa aattcatgac agagcatgag ggagatataa 180
tagtaattta tacatgttct agtgaaaatc ccattatttt taagctagat cagatgttaa 240
tggaaatggga agagatgaca aactggatg gagtaactct ttttgctagt ttcttgtctt 300
ctcatgcaag gattgatctc cccggaataa tgagaaatag tgtctacttc tctaaagttc 360
gtctttatgg aaagcgtgc atatcattct ctcttgatga ctgtagatac tatcctcgta 420
agcagtggca tgactg 436

<210> 18510
 <211> 356
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18510

tacacattat gtgatgcaa attggaagtt gaacagtata atgcttaatt nttctcattt 60
 tctctctcca cactcanggc atgagatggc taaagtgata tantggtttt tggaagaatg 120
 ggggattgaa canaaatfff ttfcattaac tctatataat gcttcttcca atgatataat 180
 gcacgactat ntgaaggaaa gactatcttt gcatactaata ggttttagtaa gtggtggtga 240
 attttctcat atccgatgtt gtgctcacat tttaatcctt attgtcaaga agggttgaaa 300
 gtagtgggtc ctgctataaa caacattaga gaaatcatta agtatgttag tggatc 356

<210> 18511
 <211> 372
 <212> DNA
 <213> Glycine max

 <400> 18511

agcttgtctt ccaataccct gatgaggatg tcccatatgt tcttaaaact ggactgattc 60
 atttgcttcc aaagtttcat ggccttgac gtgaagaccc gcacaaacat ttgaaagaat 120
 ttcacattgt ctgctccacc atgaaacccc cagatgtcca agaggatcac atatttctga 180
 aggcttttcc tcattcatta gatggagtgg caaaggactg gctgtattac ctgctccaa 240
 ggtccatcac gagctgggat gaccttaaga gagtattctt agaaaaaatt ttccctgctt 300
 ccaggaccac agccatcagg aaggatatct caggtattag acaactcagt ggagagagcc 360
 tgtatgagta ct 372

<210> 18512
 <211> 409
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18512

ggatccacgg agaacaactc gcgatgtaga ggctgcanag ttgtgttaaa aaaactgtaa 60

gtntcgctat ttaaaataca agaaatgagg tagaaaaaga ccagggaaaa gagtgctatt 120
 aaattatcat accttcacat taagaanata taanacacca atgttttaaa gattaaatat 180
 ttatttccct tttgaatggg atgtgttaga aagatatgaa taatatattc tgatgttata 240
 tagttgttat atctattaga tntatcttta atcatatctt tagctattag gtttatcttc 300
 agttctacag ttgglatatc tattagaatt acccttagcc atatctntta gctatatac 360
 nnttagctgg aatctngtat ataagcgaat gatgcttaat gaaatatcc 409

<210> 18513
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 18513
 aaaatggagg gctgtgtatt aatatcttac tcattcacat tcgtaaatat attcattatg 60
 aatttaataa taatgcacta gtgtaaaatt atatatctac atgtaattac aaatagcatg 120
 acaacataac ttataagcta cttattataa aaattaataa gcttattata tgataatttg 180
 tgattaaagc taatactgca tagtcttttt tttcttctc tagttatata atccttaaca 240
 catcctatat tatttcgcta gtaatgtaac agttatttat ttatttcttg ctaatccatt 300
 ttgcatttta taatgtaaca cgttgcttcc tttccgcttg tctgtattt tcttcattat 360
 caaaaagaaa agtatat 377

<210> 18514
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 18514
 agcaatacca ttaacacgaa actgttgtga ttcaagcata gaccgagtga gtgcgccaat 60
 ggcagcgcgt ggctagatat ctgctgcaa ctactatcat cttgatggcg ccacgaaaca 120
 gatccaaaat cactccttgc gatgccaaa gttcgctatc atgagggcggg agcgattcag 180
 tggcgcttac cttgcgaccc gctccaatac gtgctcctaa gacgaaccat ggctct 236

<210> 18515
 <211> 456

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18515

tgagttgcat atcaatcttg ccaaagagat actcgttttt ggtctgattc cccgagccan 60
aggctttgtc aagggaaga gtgagaagat cgcctgtgtt gaggatcttc gacacacat 120
ctccccaagt taagccanaa tccctgttga agttgtcagc agaggctgcy atggaagayy 130
ccaatacaaa tacataaagg acagtttttg ttgaaaatgt aatggaatga agagaagcca 240
tgattggttt gaatganatg tagaaagagg aagttaaaaa ttagtagct tggtagaagt 300
aatgaaatgt gagagaagaa ggaagggatg agtgtggcgg agaggtanga tntgtactat 360
ttatagatgt gtggaagctg ctatgactat cagggttacg cgtaggacaa tggttagtgt 420
gtctggaaga gttggaacaa acattaaaat attaac 456

<210> 18516
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18516

acgtactgat aaagtatcac ttaccttcgt taagtttttc atatagtact ttgtacgtat 60
ttgaatgtag attgaatcac ctaaaatcat acattgaaac aacaattaat atgaatttaa 120
ataaatgtta gcatatttct cccagggttaa gaaattgatt ctgagtctaa ttatgtttga 180
attacctttg attataaata atttattgta ctcaaaaagt aatttttact taaaagtaat 240
tttaggtaac ttttgtatat gaaaaatttt ataccaaatt tgactataac ttgcttttaa 300
gataaaaata tctaanacct aagttacttc acttcaaaat cattntttat aaaattaatt 360
ttatttgaat tcaatttcgt agattgatca cgtgtaantt atagtacctc aaacatatat 420
agtgggatac tctangcagc aaacacaa 448

<210> 18517
<211> 355
<212> DNA
<213> Glycine max

<400> 18517

tgctttcact gtcataagtt agccatatgt aaagatgcaa agccagttac ccagaggaag 60
 agaaagatgg ggaaagagag gtattatgta gtacaacaag aagtgggtcaa gttaatggcc 120
 gccaattca tcagagaaat taactactcc acttggcttt ccaacatggg catggttaag 180
 aaaccaaacg ataagtggag gatgtgtaca gactacacaa atctaaatcg agcatgctcg 240
 aaggatgcat acttactccc aaacatcgac tgactygtcg ayygaglygt cagacacaag 300
 aatgttgagt ttttggatgc ttattccgac tataatcaga gcaacgtatc aacat 355

<210> 18518
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18518

aatctcagaa ctgcaaagac atgaccttat gatattttta gtaagaatgt catacaaata 60
 tgagttacat tatgaagcat gtcaaaaggg gaaacaaatt aaaaactatt tttcaagcaa 120
 aaactttgtt tccatctcaa gaccacttga actattacat attgatttgt ttgcttcaac 180
 tagaacaacc tttatcacta gaaggacata aggtctagta gttgtggaca actactcaag 240
 atggacatag gttatgggcc ttgctcaaga gaatgagtc tttgaagtct tctttaaatt 300
 ctgtaaaaag gattctaaat gaaaaaggag tatgcattac ttcaatcaga agtgatcata 360
 gtggagagtt tgaaatgaga gctttcgcta ttatgtaaga gaatgaaanc ttcataactt 420
 ctctattgct gaacacctca acaaaa 446

<210> 18519
 <211> 346
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18519

agcttctctc ttttcttgn taatnattat atnttgagt taagccttgt attttgcctat 60
 gttntatga catttgaaca cttagtattt cttttaaata tttgtttagt atgactaaac 120
 atgatgatta cttgctcttg gttgtttatg gttatgagtt ttaaacttaa ttactttgat 180
 gatatatgat tagtgggatg tactattatt tggttattat gaatgactnt ctggattata 240

tgacattcta tgaagtatta tctctctaag attgatgaat ggttaagtta tcttgtctga 300
 ttgttctcta ttctcttgta tgaatagtaa tctatgtatg tattat 346

<210> 18520
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18520

agcttgtatt tataaagtct catgattgtc acgtgctcat gcaacaattg ttggtcgtgg 60
 ctatatgaga catcttgcca aacaaagtca ggtagcgat aactcgccta tgctntntct 120
 tccatgctat atgtagaaag tcattgatcc tgtcaagttt gatgagttgg aaaatgaggc 180
 cgcaattata ctgtgccaga tggagatgta ttttccccct gctttctttg acatcatgat 240
 tcaattgatt gtgcatctgg tcaaagaagt caaatgttgt ggtcctgttt atctacggtg 300
 gatgtacccg attgagcgat acatgaagat cttaanaggg tatacaaaga atctatatcg 360
 tccagaagca tctat 375

<210> 18521
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18521

agctntttat gtgttgctgt atccaatgaa aactctgggt tctgcctttt tatcaagttt 60
 gtccctttta acctgtggaa cataagagaa acaaacacaa ccaaagattt ttagaatttg 120
 taaatctggg ttgtaaccaa accagccttc aaatggagtt tttttgtgca aaactcttgt 180
 aggtagtcta ttcagcaaaa atactacagt gtttgagcc tccgccata gtccttttgg 240
 caactccttt tcatgcagca tacaccttgt catctccatg atacttctat cttttctctc 300
 actcacancc atttgttgtg ggatgtaagg tacggtgagt tgggtgctcaa tgccagcttc 360
 ttcacaanaa ttatcaaana catcattntt gtattccttc ccattgtcag acctttattg 420
 ttgcaacctg caatcac 437

<210> 18522
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18522

agcttggtatt cctatgactt tcatcaatgg attcgtttc ttttgggaac atgaatggca 60
 gcagaatgga gaacgaagag agagaggaga cgccacttca aggagaagat gagtctagaa 120
 gaagctcacc accataggag gccatggata agagcttgga ggaagaagga gatgaatgaa 180
 gggagaggaa gagaatagca cganatttta tgctctaaaa gagctctgaa atctgaagtt 240
 taattttcaa attatcaaag ttgaaaaaat gcacacacat gacctctatt tatagcctaa 300
 gtgtcacaca aaattgga 318

<210> 18523
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18523

ggggaggaca gatatagagt gaaattggag gaaatgcgtt gattatattt caagtggctt 60
 cagaaagccc tgtatttctca ngctttcata actctcatat tctggagctc ccctatattt 120
 gtctcgggcg tcacttttgc tacttccata ttgtagggtg gtcagctgac tgctggtggt 180
 gtactttctg ctctggctac tctcatgac ctgcaagaac ctttgaggga atttccggac 240
 ttggtgtcaa caatggctca gacaaagggt tctcttgacc gattatctgg tttcctgctg 300
 gacgaggaat tgcaggatga tgcaactatc gtcttgccac aaggcattac taacattgct 360
 atagaaatta aggatggtat ctttctgtgg gac 393

<210> 18524
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18524

agcttcgcta actttttgat cagcaagaa tgagacgtgg ttttaatatg tttactctc 60

ccatgtgcc a tgagatgcta gactaaatta attgctgatt tgttatcaat caacaacctc 120
 ataggactac aatcccttaa gtgcagttct tccattaaag ctttcagtca tagagcttga 180
 cacgctgcc a tagcagcaac aatatattat gctttacatg ttgacaaaac aactacactc 240
 tgcttctttg agcaccaaga gattagtgtt gttccacatt tgaaaacata tncagcattg 300
 ctttactatc atacttarca ctacaccaat ctgaatcatt tataccaaac actgcttctt 360
 ttatattctt ctgaccgtaa ggatataaaa tgccaatatc caat 404

<210> 18525
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18525

tcttcttacc tgctgcatgt atgcentata ctctgagatt gttactngnn nnaaagctat 60
 agcaggtgca gcaatgtgga tattgtgtgg ccnccttgc attgatggaa aaacagcaaa 120
 attgatcttt tcttcaatgt catattgatc actatcatgt cctgactta gaagtatccc 180
 tctcttcttt ggctatgtac ccttacgata aaaaattatg cctcaccttg gacctcgaag 240
 actctagtga gttgtcgaag taacaatgtc acaataatca ataggattca cacactcctg 300
 cggagacaac accaccatac tattaaagaa ataatgagca t 341

<210> 18526
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18526

agctncataa attctctttg ataccagagg atggcatgag cttcaaacag cttgcacccc 60
 atcctctgta gagacccttc agaccttctt ctctaataac ttctgaaagt gccgctgcc a 120
 tgtttggcgg gcacttacct tgcaaagcac ccaccatcag gcgcttctt gctacctgca 180
 aggggaagct aattgtactg gcagtaaaac ctgcgcgagc ataaagaagt cagatagcac 240
 aaatcattta tattaccaag tataaaatgt gattaataag tgacacgctg ctgtgaaaac 300
 catgtccgcc catcaaatag tgaatggcta ttctttcanc aaatatntca tgctatcatt 360

tgcttcatgc aacatgggtg tgtgact

387

<210> 18527

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18527

acatactgna atcgattacc agaggagatt ttcagaaaat attctcaaca gtcacatctt 60

tntgtgtggt tcttgaatgg ctatcaaagg cctatatata tatgtgactt gagacacgaa 120

tatgataaga gtgtttcaga acaacaaagg tcttatcctc ttagaaagaa aaataaattt 180

atcctcttac atattcctta gccaaaactc ttgtgattaa ataaggaatt atttgagtgc 240

tccaattggt caatctatct ctntatagag agaattcttc ttctcttctt cttcattctg 300

aaaagggatt aagagactga nggtctcttg ttgtgaaaga attctaaaca caa 353

<210> 18528

<211> 356

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18528

agctattaat ttgtatgtcc gattcaagcg cataatatat cgagacgctc gaaattaacc 60

aacggaagct ctcgagaaat tcaaatggtc ataactnta actcggatgt ccgattcagg 120

cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcgagaa attcaaatgt 180

tcataacttt tcacacggat gtctgattca cgcgcataat atatcgagac cctcaaaatt 240

taacaacgga agctctcgag aaataccaat ggtcataact tttcactgag atgtccgatt 300

cacgcgcata atacatagag acgctccaaa tcgaacaacg gaagctctcc aaaaat 356

<210> 18529

<211> 338

<212> DNA

<213> Glycine max

<400> 18529

atcttttgggt tggacatctt gacttgctat ccaatctgac attcaccaca gattcttgcc 60

ttcttctatt ttcagaatgg gaatgectct aacagctcct ttgtcaatga atttcttcat 120
gcctcttaag tgcagatgtc caaatctttg atgccatatt ttcgacttca tcttctttgg 180
agaatataca tgtggaggag taactggctt cttgaggtgt ccaaggtaac agatgtactt 240
tgatctgctg gcctttctta gaacttcaact cttctctttt gcaccaacat tcttgacttt 300
gtgaagtac attgaatcct tcatacacaca gtgactga 338

<210> 18530
<211> 401
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18530

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ctggagcata tattcttcat aatctatacc ttcttcttga ttgtatcctt ttgcaactaa 120
tctagcctaa tttctaataa ttatgccatg ttcatctcac ttattcctaa ataccattt 180
tgttcctatg atggggtagt ttttaggttt ctctactagt tcccacacat tgtttctttt 240
aaactgattt agttcttctt gcatagcaat tatccaatga tcctctatta tggcttcatt 300
tatattttta ggttcaatca gagacaccaa agccatatta ttgcatanat ctttaagaga 360
atgtctagtt gttacccttt ttgagatata accaataatg t 401

<210> 18531
<211> 289
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18531

gaacaacctg cagtnacat gcgtcggtagg agatacagca gccctggacc accaccagta 60
atgatcgtgt atcttggatc ccaagtaagt agtttcttct tttgatgttc tttttcaaac 120
aaaagcttgt ctaggctccc gtttgggtaca tagttgtaaa caatgaggag ttcaccttc 180
ttcctgcacc acccatgtaa ctgcacaaaa attctatgct ntagttgtgc catgcctgtt 240
atctctgaaa caaattctct gattccctgc cttgaatcag gagcaactc 289

<210> 18532

<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18532

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tctctcaaca acatcccaaa atgtccacca atattagatt cangaacctg tattgtgtnl 120
aactgagaag aatctatgga cgacactaan accgcaatag tgcaatttat cttcaagcaa 180
tcctccttga gaaaatttga cgtctcaagg tgtctccgtt tgaaaaaccg cgtatagccc 240
ctattacaca acaagtgcac cattgatcac tacctaattgt acaccaacaa aaatggatac 300
cagagctaataaatcatgat gatatccaat catatcacca aat 343

<210> 18533
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18533

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tgacacagtg gtcctatgca aaccatggag tctcacaact tccttgaaga aaagtttgag 120
atgtgagaag catcatctac catgtggcat ggtatgaagt gtgccatctt gctaaactta 180
tccaccacaa caaagataga gtctacancc ttttgggttc taggaagccc aaggacaaag 240
tccatactaa tgtctacca aggtgtagat gggatgggta aggggtgtgca tagcctatga 300
ggcatcacc tagacttggc ttgtaaacaa gccacacatc tagtgcaatg cttatgggca 360
tctttcttta tatgggacca atagaacttt tctttgagta agacaagggt cttgtctatc 420
ccanagtggc ccatgagcca ccctcat 447

<210> 18534
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18534

tcagctntgt ccncaatact tcatgtagac ttgtccaata tcttatatta tacctcggat 60

tccctttgga tacaatactg gaaggaattc catgcaactn tactacttcc ttaatatata 120
 actccactag cttctccatc ctatactnta tattcactgg aataaaatga gcagatntgg 180
 taagtcgac tactatgacc catacagcat catgtcccca actagtctta agtaaactag 240
 atacaaaatc catggatag ctctcccatt tccattccgg aatttctagt agcttcaatt 300
 ctcttgatgg tgcctgatgc tcagccttag ccttttgaca tgcacaacac ctgctacat 360
 attcagctac atctttcttc atgccatgcc accaaaaact tctcttcana tcttggtaca 420
 tcttagtcat tcttgatgg aaact 445

<210> 18535
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18535

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 tcaaaaactaa ttgtcgtttg aatttactca aagcttctgt attcaatttc tggcatctca 120
 atatattaag ggactctatc gaacatctga ggaanaagtt attgtcattt gaatntgctt 180
 ggagcttctg ttttcaattt cgagcgtctt gatatatgat gggactcaat cggacatccg 240
 agttcaaagt tattgtcgat tgtatctgct cagagtttca gtgttcaatt tcatgtatct 300
 cgatatacta taagacttaa tcggatttcc gagtaaaatg ttattgtcgc ttgatttgct 360
 caaagcttat gtattcatat caagcgtctt gaattattat atgcctgatt agacatctga 420
 gtc 423

<210> 18536
 <211> 317
 <212> DNA
 <213> Glycine max
 <400> 18536

agccatgatt gattgatatt tttaacaata atattttcgg agtaaaaacta ttattattaa 60
 tatgatctat aatattataa ttatttataa gaaattatca aattatttta gtggctttta 120
 tgattagaat cattttaatt gtttgagata agttaattcc tataaacata tatatggggtt 180

atatgaataa atgtcttctt tttctcttga aggggcttac aacgttttga taacatgtca 240
 ttgtgatgtt tgtcgaccag ttttggccac atcttgtggt ttaaaattat cttatatattg 300
 aatctttgac attgtaa 317

<210> 18537
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18537

agcttcttat agntccgttc ctctctctct cgatatgaga ccgagtctgg cactccacat 60
 tagtacattc accaattata aaagcatcaa ctctgtcata cggaatgagg gcaacctcat 120
 catggtgctc agcattacca aacttgggtc aagtcaggtc agcaacacaa aactcctcct 180
 caggtgggtc ttgcaaagga atcttcccca cggattcaac tatagccata tccaaaatgg 240
 cacaaaaacc aaaaaacaca aaaaccttcc ttgctatata tacagaacaa tctagaagtc 300
 tctccacaaa cactcacatg tccaaaacag ttaaactgtt aagcacataa caaacacccc 360
 tgaaacaaca aatacctttg agat 384

<210> 18538
 <211> 326
 <212> DNA
 <213> Glycine max
 <400> 18538

agccctgtat caaatcaagc ttagagaaat accttgcgcc acccaattca tcgagtaact 60
 catcgatcgt cgaaattggg aaccgggtctc tcacggtcaa cgcattcagt gcctgtaat 120
 cgacgcagaa cctccatgaa ccatcctgct tcttaaccaa caaacagga gaggaaaagg 180
 ggctagagct gggctgaata aggccctttt gcaacattga atccacctga gactcaatct 240
 cctgggttttg gtaatgggga taacgggtatg ggcggtacatt gaccggaggt gcttggggaa 300
 ggagatgtat gtggtggtcc gtgtca 326

<210> 18539
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18539

acctgtcgca ggggtgggggt ttggtcctc tgctgaccac catacagacc ttngcacttc 60
catgcagcaa cctgaagcaa ttgagcacc cgaagcttat gctgcagata tataacaatag 120
acctnctcaa cctcagcagc aaaaacaacc acagcagagc aattatgacc ttccagcaa 180
cagatacaac cctgcatgga ggaatcacc taacctcaga tgggtgcagcc ctgagcaaca 240
acaacagcag cctgctcctt ccttccaaaa tgctgctggc ccaagcagac catacattcc 300
tccaccaatc caacaacagc gacga 325

<210> 18540
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18540

agctttctct attgttcttg atanaagaag agcaagacgg ttaatcatgg tactttgaca 60
tcaagcggta cgtagagtat aaggagtatc cacaaggggc ttctgaccat gacaagagga 120
cattggtgaa gttggcaact agttcctttt taagcagagg taccctatac aaatganatc 180
atgatatggg cttgctctga tgtgtngaca cttaagaagc cgagcgaatg ctcatggagg 240
taccatgaag ggtccttttg atgcatgcta atgtgcatgt catggctagg aagattctaa 300
ggcagactat aactggctca ccatggaaaa tgact 335

<210> 18541
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18541

tcatgttaag tatgtatggc anaacttcat tactgttggt cttgacatac aagtgagctt 60
gtaacanatc ttctagactt ggagtgatca catgcagtcc tcttgaacct ttaccactca 120
ctctatcatt atgctgagac tcaagaaggc caataggttt agccttctca atgtattctg 180
aacaaaatcc aatggcttct tctacaatgt acctctcaac aatagatggt tttggatgat 240

atagattctt tgtataccct ttttaagatct tcatgtatcg ctcaaccggg tacatccacc 300
 gcanataaac aggaccacaa catttgattt ctctaaccag atgcacaatc aactgaatct 360
 tgatgtcaaa gaaagcaagg ggaaaatacc tctccaactg gcacaatata attgcagcct 420
 cattntccag ctcatcaaac ttgacaggat caacgactnt gctacttatg gcat 474

<210> 18542
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 18542

agcttgaatt ctaactggat gcattgggta acttggtaac ccagctggcc ttgaaccaaa 60
 aatctgtacc tgtcgcaagg gtctgcgggt tgtgctctc tgctgaccac catacagacc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc cgaagcttat gttgcaaata 180
 ttttcaatag acctcctcaa cctcagcagc ataatcaacc acagcagaac aattatgacc 240
 tctocagcaa cagatacaac cctggatgga ggaatcacc taatctcaga tggcttagcc 300
 ctcagcaaca acaacaacag cctgctcctt cattccaaaa t 341

<210> 18543
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 18543

atctctatat ctttaaaggt tatcatataa gcttttaaga tatctttggt atctctaaac 60
 atcttaataa gaagctaaag tatttatattg tattataaag gttattttat tgagaccgc 120
 atatatcttg gtagactaag atcaatacat gtggtaataa gtttccaagt cttggaaaat 180
 attatactaa tattttattg agttgtataa agatacttac ttggtatgaa aatcatgttt 240
 cttatagctt acaagaataa tatttcgggt ataattacat ctgttaatgg ctcaagctaa 300
 ataattgaac ttgta 315

<210> 18544
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18544

agctngtatt ctttatatct ttttcatcaa tggagtcctt tgcttcttga agatcaatgg 60
tagtggaatg gagaaggaag aaagattatt ggagacacga attcaaggag aagatgagtc 120
atgaacaagc tcaccaccat aggaagccat ggataatagc ttgaaggtag gagaagatga 180
gtggaggggag gagggagaga tgagcagyan attclatgcc tcaaatgagg tctgaccttt 240
gaagtgtaat tctcaaatga tcaaagttga aatatattgc acacataaga cctctattat 300
tggctaagtg tcacacaaat gggaggggaca ttgaatttta cttgatttga attgaattgg 360
ggagccaatt tggagccaaa tttcactaat ttgttaatga 400

<210> 18545
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18545

ctaagcctcg cgaccagggg ttttcgtaat agaagagaca tacggctatt agcctgtgct 60
tgttcggaga gatcgtcata catgattaaa gtgtgacgtt cacggtacat aaaatattca 120
gccagagctg ctctgtata agggggcgagg tattgtaatg tagctggaga atccgctgtc 180
tcagctacta caatagtgtg ttccattgct cctctttctt gtaaagtatt caccacttga 240
gccacagaag atgctttttg accaatagct acataaacac atattacatt gtgtccctgt 300
tgattgagaa tagtatctgt ggctactgct gttttaccgg ttagtctgtc tacaataatt 360
aattctcggt gccacgtcc tatggtgatc atcgaatcaa tagcaataag tcctgttaga 420
gaggctcata tacngaacgt ct 442

<210> 18546
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18546

tcaagctggt caaanaggga aaccaagtta aaactcattt cagagcatat tcattatttc 60
taattcaaaa ccccttgatc tacttcacat tgatttattt ggtccctcta gaactatgag 120

tttaggtgga aattactatg gcttagtaat agtgggtgat tactcaaggt tcacacggac 180
 tttgtttttg aaagccaaaa atgaagcttt tgatgttttt tgcaaacttg ccaaggtgat 240
 taataatgaa aaaaggtctt aacattgttt cacttaaaag tgatcatgga ggtgaatctc 300
 anaatgagtc ttnttaaaac ttttgtgaag aatatggaat tcaccaatat ttttttgccc 360
 ctgagaacac ctcaacalaa tgytgytgyt gagatgaaa atagatcccc tgaagatgyt 420
 gcaagaacct ttctaaatga aacaaagtta cctaagtact nttgggctga tgttgtaca 479

<210> 18547
 <211> 335
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18547

aaaatgggtgt atcaaagagg cgtaatacaa ctttaatgga tatgggttagg agtatgttaa 60
 tcaattagac tttaaccgta tctttgtgga tgtatgcctt gaaaactgcc atgtatttgt 120
 tggacagggg tcttagtaag gcagttccaa agacaccttt tgaactatgg acaaatagga 180
 tacctagtat aaggcacctg catgttttagg gttgccaggc agaaataagg atttataatt 240
 cgcaagacag aatattggat gcaagaacaa tcagtggata tttcattggg tatccagaaa 300
 agttaaaaag gtatatnatt tattgttcta atcat 335

<210> 18548
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18548

naagcttttt tatgttatgt tgcctttaaa agatgttgac agcatatgaa tagaccagcc 60
 tctggccata tgttattaag tattaattac gagcatactt aggcctacca aaatttaacc 120
 taatcaggcc tatttcaacc ggtagttata aatatgttaa attaatttgt aagtctttat 180
 attatttaat aaatttaac aagttcttta attatatatt tcttttatat gagtctatga 240
 acttgcattt atattctaaa taagtccgtt tattcttaat tagttccttg ctaagaccta 300
 attaaatatt agatacaagt ctaacgatct aattgataaa aaagctaaga attatttaaa 360

aataaataat agttcaaaga tta

383

<210> 18549

<211> 408

<212> DNA

<213> Glycine max

<225> unsure at all n locations

<400> 18549

tctgcgaagc cacatgatta ttcattgtcta tctgatgtaa ccccttcctt attgtagtga 60

ggagccggat cttcaaaagg caaggacaat ccctggccta ggaaatccag tgcccatact 120

ctagtgtcac gccccagatc tctcagttgc ttctcataat ggaaagagcc aacacccaaaa 180

ccaggaagaa agagaacatg tggggaatcc acgttctcac accctgcctt ctcattagtag 240

acgttaagct taggcttcca ttcccaaaag caactactta ttggagcanc cattgaccca 300

tctggcagac ctggaatgac aactttgtta gtagcaaggc cttctacccc tgcaatatct 360

gctacatnct cttcancacc aattacatat ccattgcaac tttcacta 408

<210> 18550

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18550

ggattnnntt acaggagaaa tatcatttag attttgtgta ttananaata atccgaaaat 60

ctttgaaata ttacagttc aaataaaatt acattccata aaatgatatt ttatgtaact 120

aaaacatata agtaatatat ttagatataa atatacaagt actcattcaa gtgagtgaga 180

acaatttggt atcccatata gattagatct aatatgtttt atgactgtac aattatggat 240

acaatacctc atccattgtc aatctaatta tgattatctt tctttgtatt gttcacaatt 300

tgtatctntg cgaatgtgtt atgtccttca aaattattga tatattccct tccattgtaa 360

ctaattctcta acaatagcac acccaattga aactctatgt ttgaaaatt atttgaaaca 420

aagaatgata attgttaaca aaaatatgat gacata 456

<210> 18551

<211> 406

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18551

agcttgacga actttctata ttcatatagt atttgctcnc agaagtccca ttggcatctc 60
tgtgtttcaa atogtgtacg aaaaagtgtg ctacctacca atggagtaag aaattaaaac 120
tcattatgcc atgatgttcc tcaactatat ctatatatca tccagagaga aaaggaatgt 180
ataactacaa taacttacia aaatatgcca caacgcatat gatatatcca aactctacia 240
acgaagaacc catatgaacc atgacaacac aatcctctac agagaatgta tgcccanact 300
actattagtg ctctacaact caagattaaa gatgtttctt ggaaaataac aacaagacgg 360
agtgtgctct ttactatcca agacattaag ccatatggtg gtatat 406

<210> 18552
<211> 288
<212> DNA
<213> Glycine max

<400> 18552

gctccttcaa ctgcacaagg ctcttaatat atgaagagtt tttttgtgga atcttcactt 60
tatgaagaca ctgacaaaga ctaatcttct acttttatga caaagtatga caagctgtgg 120
gcaaataaat gttcttccca tcagaccttg gatgcaactg taatcgtatc ctcatTTgag 180
ctaaatctta acgaggattc aagccatcct ttgtcttgcc tcgaatgtta aagagcatcc 240
caatcacact gtcacatata tattttctgta catgcttaac atctatac 288

<210> 18553
<211> 355
<212> DNA
<213> Glycine max

<400> 18553

agctttgacc ttctgaattt ttatgactta ctacgccaga tgaggcaaca ctcttcagct 60
tttgcgatg gactccagcg tttggctcat tactttgcca atggccttga gacaaggttg 120
gctgctggga ccccatcata catgcccta gaaggaacaa ctccgctga tatgttgaaa 180
gcttaciaaac tatatgttac atcctctcct ttgcagaggt tgacaaatta tttggcaacc 240

cagacaattg ttagtcttgt ggaaaatgag ggcagcggtc atattattga ttttggcatt 300
 tgctatgggt atcagtggcc atgccttacc aagaagctct cagaaaggca tgggtg 355

<210> 18554
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18554

agcttattca ctttgcactc tatagaagtg ttagattggt gaaatccagg agcctgagac 60
 aagtaaacag tctcattaag taagccattc agaaaaatat tattcaaata taattgagca 120
 agatcccact gatttgaaat ggctaaagta aaaataagtc taatagtaat tggttttact 180
 actggagaaa aggtttatga aaaatcaaac ccttggactt gattcaatcc agtggcaact 240
 agaggagett tatacttatn tattgaacca ttttcgattt tttcactcta aataccact 300
 ggctttccaa ttagatgaaa gaggtactag tttccaagta tgattcttca tcaatgcttc 360
 acaatctagt tgcatagatg acaaccagtt tggataagtc aggcattgtc acattctttg 420
 ttcacaacga gt 432

<210> 18555
 <211> 303
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18555

tatgatactc agctttatna aggttcgccc taatttctct actttttcct cacctctgaa 60
 tgagctggng aagaagaatg tggcatttac ttgtggtaaa agacaagagc aagcctttgc 120
 tttgctcaaa gaagagttca ctaatgcacc tgttctagct cttcctgact tttctaaaac 180
 ttttgagcta aaatgtgatg ctcttggagt gtgagctgga gctgtattgt tacaagggtg 240
 gcaccctact gcttattata gtgataaact tcatggtgcc accctcaact acaccaccta 300
 tga 303

<210> 18556
 <211> 443
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18556

agctntgatg gtgtcgagat tatatcacat gtttgtcatc atcaaaaaga gggagaatgt 60
gaatgtatgt atacatgatt ntgatgatgt caaagaagaa tctaataagg ctgcttcaaa 120
tyataaycal ttgcctcaag aataaattcaa gattggctca acaaacaaag ccttgcttca 180
agattcacta aagaccaagt cttgccttan aacaaagtgc tttcaagaca tgcaaggctc 240
tggtaatcga ttaccaggag atgtaatcga ttaccagaag acaggggtga gaaatagctg 300
ttgaaaaatg ttttgaattt gaattttcaa catgtaatcg attatcatat gtctgtaatc 360
gattaccagc aacgaaactt tggaaattca nattcaaaaag tcataaccct tcanattata 420
actgtgtaat cgattacaca aac 443

<210> 18557

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18557

gctcgttgag tcatccaaat cattntcttt catacagttt atgatgcac cagcaataag 60
ttcatttcca aattcacact tctattttta ccaaattctt gatgctcaa atgttgtag 120
aaagaactac agaaaacaat atcttcacagg gccaatgttt gggccctatt cctttataaa 180
tgtagttggt ggcattgaag agtttgatga tgctggacga agccggacaa atatggttga 240
agtagcaatt gtgatgaaaa taattaaaaa ttgtttttaa gggttgtgtg tgtatgcgaa 300
atctcagtag tgatctatca ttttagtgta ttttcattct ccttgagaaa gactatactt 360
gtcaaaagtg aaaattttca ttatttccac tact 394

<210> 18558

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18558

cactctacaa tacacagct tctcaaagat gtacttaacc aggtccatct tggatatcaa 60

ccatgtggta tggttcagca tgtattgtct tagacggtgg gacgccagca ctaaagcaca 120
acacgttctt tgcagcaggg agtagttcat ttcataaggcc gtgaactttt tactcaagta 180
gtagacagcg cgttctctct tcccggactc gtcattgttg cccaacatac atccaatcga 240
ctcatccaaa atcatcatat acaagatgag aggccttctt ggtaccaacg acataagcac 300
gagaggggtc atgagacact gtttgatcct tccaaacgcc tcttyacaat cctcactcga 360
acggacggga tgggttttgc gtaagagttg gaataacggc tcacaatta 409

<210> 18559
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18559

agcttagcca ctgagttggc aagtgtatca gctgcttctt gtgtggatgc ctgagcatac 60
acacgaacaa catcttcagt gccagatggg cgcacaaagc atcgaccttg ggggtcctta 120
gctgtaaatg cagaagagga aagagtatca agctgcaata ttagtaaaact gaaattctgc 180
actttaatct ttcacactaa aaggctttca tggatggatg aaactgacaa atatctcgca 240
gtcagtgaag ttttgccaag ccacttggac ttgataacag taatagtata atcccataaa 300
caagacacca acttttcaga gatataacat tcaattntgg tattatttat gcctccttgc 360
ctccctcact ctgcccattc ttggtgggtc acanataana gcaagcaagc aatgatataa 420
ccaaaaaaca atggtt 435

<210> 18560
<211> 280
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18560

tattgctaaa tgctaataca tcagcaattc tcacagaaat catcttggtc ctgacaatgt 60
tagaaaccat canaccatgg ccatatataa ctgtgcaagc atgatagaaa acaaattata 120
aaactattag aaatgaatga ggaagtntga caaaataata agacaaatac cttttcattg 180
tatatacgaa agccttcttt gactactgct ntagtatcat ctgaccgagt aatgagctnt 240

gacatacagt gtgcaggaag aagaagtgga gccatgacca

280

<210> 18561

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18561

agctnttaag ttaaaggata tgactcttca catttgaata tgaatttcaa cattcaaggg 60

cactagtaat tgattaccaa aacattgtaa tcgattatag ctttttgaaa ataattggaa 120

cgttgtaaat tcagtttgaa aactttttca aactcatttt gctactggta atcgattaca 180

acaatatggg aatcgattac cagagagtaa aaactctttg gtaaaagggt ttgtcaaaaa 240

ttcatgtgct attcaaagt ttagtgcttg gctttactga gttttaaaag aatggctagc 300

atgttgtaa aacataagca cttacacaat gaaggaaagc tggagttgct gcacatgatg 360

tctaacatta tgtcaa 376

<210> 18562

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18562

agctttatat ttgtntgttc ctaatttctc tacaattgca tcacctctca atgagctggg 60

gaagaagaat gtggcattta cctgtgggtga aaaacaagag cgagcctttg ctttgctcat 120

agaaaagctt actaaggcac ctgttctagc tcttcctgac ttttctaaaa cttttgagct 180

agaatgtgat gcctctggag tgggagtagg agctgtattg ttacaacgtg ggcaccctat 240

tgcttattct agtgaagaac ttcatagtgc cacctcaac tatccacct atgataaaga 300

gctttatgcc ttaataagag cctccaaac ttgggaacat taccttgtn ccaaggaact 360

tgcatcctcat agtgatcatc aatcacttaa gtacattaga aggcaaagca agtta 415

<210> 18563

<211> 341

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 18563

gcttaacatt caatttcgag cgtctcgata tattacgaga ctcaatctta catcagagaa 60
naacgttatt gtcgttgaa tttgctcaga gtttcaacat tcaatttoga gcatctcgat 120
atgttacggg actcaatcag acatccgaga naaaagttat tctcgtttga attacgtcag 180
aagttcaaca ttcaatttcg agcgtctcga tatgttacgg gactcantca tacattcaag 240
aaaaagttat tgctgtttga atttgcacag aggatcaaca ttcaatttcg agcgtctcga 300
tatgttacgg ngcttaatca gacatccgag aaaaaattat t 341

<210> 18564
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18564

tatcgtaacc gattacacca atatTTTTga gacaatgatt gatttttagg agtctctgct 60
ntaatccatt accagtagat ataatcgatt acttctctct tannaagtgt ntcagaagtg 120
atcaagaaca ctttaatcaa ttacatcnaa aatctaatacg attacatttg tctttgaagt 180
tttccaatnt ttgggaagaa cactntaatc aatcanaatg gtaataatca attacttctt 240
tgaaataatn gattacattg tataatntaat tgattacagg cagttattac gagctggtat 300
aagctagaat aacattatta gaaaatatgt tttttacatc gggtatttat gactntcaac 360
atcngttttt aaaatcgatg tgaaagtacc gaccgtgata gtattattgg taacatcngt 420
tttttaaaac tgatgttacg taaaa 445

<210> 18565
<211> 399
<212> DNA
<213> Glycine max

<400> 18565

agcttaagat taatctcaaa gttgcaaaag tacaaccttg taagagactg agtatgtcat 60
gcaaagatga ttacattttt gaatcttgct aaaagggaag acaagttaaa aaactctttt 120
tccagtaaaa atattgtttc cacctctaga ccttttagagt tgttacatct tgatctgttt 180

ggcccaacaa gaacaacctc aatatgtggt aaaaggtatg aacttgtcat agtgaatgat 240
tactttaaat ggacatgggt aatgttctta gccacaagg atgagtcttt caaggctcatc 300
taaaaatttt caaaatagat taaaatgaaa atggagcatt gtcgcaacct acccttcgtc 360
gggagggcga cgcgagactc acgggtgcat cttccatgg 399

<210> 18566
<211> 347
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18566

agctttaaga atatttgcaa catcgttntg gatatttaac aagaacattc tatttcttga 60
cattggtaacc ttggtaatta gattatttct cccatctctg atggaaagac tagaatcttt 120
catgtgaata tcatagcctt ttttgagtaa ttgtcccaaa ctcacaatat tgttcttcat 180
atttgggacg tagtagacat ttgatatgaa ttcattgtctt gcctccttca natggattat 240
gatcttacct tctgtctttt atacgaatct tggaattata acagattatg cattgccact 300
tactgactca tcaagatcca cgatcatgct ttcttctcac acatatg 347

<210> 18567
<211> 440
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18567

agcttggttaa ttctgtggaag ctccctaatat ctcccacact ttttgggggtg ggccattctt 60
ggatggcctt gatttttctca aggtccactt ggaccccatc tctacctact acaaaaactta 120
agaaaaactat attatctaca caaaaggtag atttctctat atttgcatag aggggtgtttt 180
tcctaaggac tgaaagaact ttccctaagat gtcctaagtg atcatctang ctccctactgt 240
atactaaaat atcatcaaaa taaacaacga cgaatctacc tatgaaatcc cttaagacat 300
gatgcataag cctcataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360
attcatacaa accaaacttg gtcttgaaag cggttttcca ctcatcacc tttntcatcc 420
tgatttggtg ataaccactt 440

<210> 18568
 <211> 382
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18568

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 acaataatct atgcctgaat caacttaca ataatcttac aataatgaga aaaattaata 120
 aacgagttct atatttataa caaatatact aacattttac aacagaaaaa tagactatat 180
 accatacgag ataattatcc cagctctata atcatctaaa atatgggtac aattgtataa 240
 catataatta taataatggt gtgagtaatc cacacttata taattacaca ctcatgtaac 300
 cattacgaga tatgaaagaa agaaatatgc tcaaacattt ctttatcata ttcaagtaat 360
 atgtttctaca tgataagtta ca 382

<210> 18569
 <211> 438
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18569

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 cccgggtctgg attccgacat tgtgcagcat aagttgcctt tgaatcctgn gtcttccccg 120
 gttaagcaaa agttacgaag aatgagaccc aagatgtctt taaaaattaa agaagtaagg 180
 aagcaatttg atgcagggtt tttagctgtg gtcgggtacc cagaatgggt agccaatatt 240
 gtcccagtc cgaaaaagga cggcaagggtt cgaatgtgtg tagactaccg ggacttgaac 300
 cgagccagtc ctaaagacaa ttttcccta ccacacattg atatattggt agataatata 360
 gccaaattcg tctttttctc atttatggat ggtttctcgg ggtataatca aataaagatg 420
 gcacccgaag atgtagag 438

<210> 18570
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18570

ntccgccaat ggtatttgag gtttaatgat accattatct cctttatata taaggaaaat 60
attgtttatc ggtgtatgta tctgaaggtc agtgggagta aggttatttt ctaartttgt 120
atattdataa tatcttggtt acagclaacc atcttggtct tcttcattgag actaagaaat 180
ttctctctat aaactttgaa ctgaaagata tgggtgacgt aagclatgtg atacggatag 240
aaatattcca taatagatca taatgattgt tacgcttatt tcacaaagta catatatcca 300
taaagtgcta cagaaattca agatggacag gtgtttaaca tgcctattc taatgtataa 360
atgagacaca tttattctca caccaatgc 389

<210> 18571
<211> 247
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18571

tatgctgcan acatttataa tagacctcct catcagcaaa actctcaaca atagaataat 60
tatgaccttt caagcaatag atacaatcca ggttggagga atcatccaaa tctgagatag 120
acaagtcttc cacaacaaca tcagcctgtc cctcctttcc aaaatgctac tggccaagc 180
aagccatatg ttctctctcc aatgcaacaa caacagtagc agtcacaaca aagacaacaa 240
gcaactg 247

<210> 18572
<211> 397
<212> DNA
<213> Glycine max

<400> 18572

agcttctctc ttttcttgta taattattat attttgggta taagccttgt atttggctat 60
gtatttatga catttgaata cttagtattt cttttattat tggattagta tgactgaaca 120
tgatgatcat atttacttgc tcttgggtgc ttatgggtat gaagttttaa acttaattat 180
tttgatgatg tatgactaga ggtatgcatt tttatttggg tattatgaat gactttctgg 240
attatatgac attctataga gtattatctg tctaagattg atgaatgatt aagatatctt 300

gtagattga tttctattct tgcgatgctc atttatgtat ggtaattata tttcttacct 360
 ctctaagttt gatgaatggc taacatatcg tgcttaa 397

<210> 18573
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18573

agcttaagct tcttcaactg cacaaggctc ttaatatctg aagagtatcc ttgtggaacc 60
 ttcacccgat gaagacactg acaaaaactt atctttgcct tcttgacaa agtatggcag 120
 gctgggggca agtaaactct cttcccatca gaccttggat gcaactgtga tcgtataccc 180
 atatcagcta gatcttgatg ggtattcaag ccacccctcg tcttgccctg aatgttaagg 240
 agcgtcccaa tcacactgtc acaaacatta ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcaa gatcacgcca gtacggaaga tcacagaaga tggacctctt cttccatag 360
 caacgtgac tnttatectt cttttgggtc ttcccaaata ctataatcag gtgttgaacc 420
 cgttgatata c 431

<210> 18574
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18574

tgtntaatg tgttataaga accaatgctc ctatcaacag gcatattcca tgacccagc 60
 ccccaaacat cagagcanat aagtaaggga atataatagt tgggtaaact ataggatttg 120
 cttcttggta tcttgcaaca ctgccaagta aaagggtctaa ttangaatct aatcagttgt 180
 catggattta ttatataccg agaagaaatg gatagtaagc tagataattt gtatccaccc 240
 tgganaaaca atgcactata aagcagtcct aaaatttact tcaagacatt taataattca 300
 tgttgctgct agtaaagtaa ctaaacactg tatgcatcac caatttcttg ataaggaatt 360
 gtgaaagtgt tggctctaan atatgt 386

<210> 18575
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18575

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actcttttat tattcttggc cgcgcgntcc ttggccctct tgcatttatg agaaratgga 60
gcttcagttt gttccatgac atggcagaat tctgggggag tctggtgatt cgggtgctgt 120
tttggggggt tgccaatcag gttgtttcat tgtttgaact ttgagcttac tttgttagtt 180
ggtaatttgt ttctggcttt aattntgtta tagtatttgt tgggtgctgt atcatcttaa 240
cattntttta ttttggatc tgaacatggc ttattgattt catcatcatg aatggctgtt 300
gtttgntgga ttgtgtcact ttccagctat tcttntggt catattcatt tgtatgctgc 360
tcctttctct atagcttagc cgttagctt ttgatgagtc ctttatatgt tattatttct 420
tg 422

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<210> 18576
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18576

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tattacaagt cagtgaaca acctcaaaga aggctgaatc taataatgaa agaagaagta 60
agataggaag tgctcaagtt ggtagaggca gggctcattt acctaatctc ggatagttca 120
tgggttagtc ttgttcaagt tgttccaaan aaggaggta tgacagtgat aaagaatgat 180
agagatgagt taattcctac aagaatagtt actgntgga ggatgcgtat tgattacagg 240
aagctaaatg aagccactan ganagaccat tacctgctcc cttcatgga ccanatgctt 300
gagagacttg canggaatc tttctactgt ttcttagatg gatactcann gctacatcaa 360
attgcagtgg atcctcanga ccaagaanaa acatctttca catg 404

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<210> 18577
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 18577

agcttggcta ttactttata catgcaacca atgagagaaa tatgtctata gtcatttaaa 60
gactgtggat gggttgcttt acgaataaga gccagaagg aggcattgct gcctctaggg 120
aagctgccat gaatatggaa ttcattccaca aatctcctga attcaggttt caaaaccccc 180
caaaattcct tattaataatt gaaattaaag ccatctggcc ctgagcattt gtctccacca 240
caactccaaa caacatcctt aagctcctgg cctgaagaag gggcaatttt accctccctc 300
tgctctgat caatcatagg gaaatatacc ccatccagag aaggtctgaa caatgtatct 360
tcagtaaatt tatggagaga gaatttgaga acttcattct tgactaaatt atgctggtga 420
accatacac catc 434

<210> 18578
<211> 401
<212> DNA
<213> Glycine max

<400> 18578
agcttaaaaca ttcaacttcg agcgtctcga tatattacgg gactcaatca gacatccgag 60
taaaaaatta ttgtggtttg aattgggtca tagattcaac tttcaatttc gagcgtatcg 120
atatattacg ggactcaatc agacatccga gtaaaaagt attgtcgttt gaactagtcc 180
agagattcaa cattcaattt cgagcatctc gttatattac gggactcact cagacatccg 240
agtaaaaagt tattgtcgtg tgaattggaa aagaggttca acattcaatt tcgagcgtct 300
cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tcagagattc aacattcaat ttcgagcgta tcgatatatt a 401

<210> 18579
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18579

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atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac aataactttt 120
ttcacggatg tctgattgag tcccgtaaca tattgagacg ctcgaaattg aatgttgaac 180

ctctgagcaa attcagatga caataacttt ttactcggat gtctgattga gtcccgtaac 240
 atatcgagac gctcgaaatt gaatgttgaa actctcagcc aatacaaacg accagtaact 300
 ttactcggga tgtctgattg agtcccgtac atat 334

<210> 18580
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18580

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 atggcacctc ctctcacctc ttctcctttg tcttcgctg catctccatg gtggaaaatc 120
 accattaaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
 gcttccatca ctgcctttga ggatcgagga tagacgaaca aagcacctaa gaaggaagga 240
 ggttccattg gtcaagggtga cctgnggagg tacatcagga gaagatgcc cgtgggaatt 300
 agagagtcag atgcaagccg cctatccatc cttgtttgag tcaggtaaatt ttcggggacg 360
 aaattttctaa aagggtagga gagttgtaac accctgagat attataagtt atatatcgat 420
 gtttaa 426

<210> 18581
 <211> 368
 <212> DNA
 <213> Glycine max
 <400> 18581

tatgcacttc tcttatgaca acggcagcac tcctagcact aaactgctac gagcttgaag 60
 ccatcttctc aactaaatct ctgggttcag caggggccat gtctccaagg gctccaccac 120
 tagcagcatc gatcatactt ctctccatgt tactgagacc ttcataaaaa tattggagaa 180
 gaagctgctc agaaatctgg tagtgagggc aactggcaca caatatcttg aatcttacc 240
 aatactcata catgctttct ccaccaagat gctgatgcc tgaaatgact attctgatgg 300
 cagcggctct ggaagcaggg aaaagttttt ctaagaatac tctcttgagg tcatcccagc 360
 tcgtgatg 368

<210> 18582
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18582

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 atgcaatgtg gcgaatgcaa tacacataag atacatccyg tccaatccac ccaactcgtt 120
 ttgattgcaa agctgctagt aaagtgggtc acctgtctaa tataatacat aaatttggtt 180
 aaagtgtaac atatctcttc aaataatgca agaaccacat ccaaacttct ttgatctcgc 240
 tctcaacaat tgcaaaagaa agtgggaaaat tatttctact accatcttgt ctaatggcag 300
 tcaacaaagt accataatat ttccagttta aaaatgtccc atctgcttgc tcaattggct 360
 tgcaatattg aaagcettca atgcatagct tanaagcca aaatacacga ttaagaatca 420
 cct 423

<210> 18583
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 18583

tgtagggtta aagtctcacg attggcacgt gctgatgctc atttgtttagc cgaggctata 60
 cgagacatct tgccaaacaa agtcagggtta gcgataactc gcctgtgctt tttcttccat 120
 gctatatgta gcaaagtcac tgattcagtc aagtttgatg agttggaaaa tgaggccaca 180
 attatactgt gccagttgga gatgtatttt cccctgctt tctttgacat catgattcac 240
 ttgattatgc atctggtcag agaaatcaaa tgttggtggtc ctgtttatct acgatggatg 300
 tacccggttg agcaatacat gaagatctta aaagggtata caaagaatct atatcgtcta 360
 gaagcatcat ggcagaacaa gctagacatg tattttacgt gcaagaccct tgtgatgaaa 420

<210> 18584
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18584

gggatgtgaa cgagatatcg cgggatatat acttgtgatt gccaaacaat aacgacatcc 60
 atcgtctact acgaattaga gagacatatg ggctgacagg tatgtttgat tctatcgatt 120
 gcatgcatcg gaaatcgata aatcgtctag ctgcattaca aggtcaatat tggacaagtg 180
 atcattgcat acccataata atacttgaat gcgtgccgta tcacgacttg tgcatttgac 240
 atgcattatt atggagtggt ggattcaaca tgatgacatt aatgcgcaaa accacatcat 300
 ttgtgtttta tgacattntg gaaggttgag ctctctactg caatatacaa tgaatcgaac 360
 cccatataat atgagatact atattgtaga tgacgtttat cctgat 406

<210> 18585
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18585
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 tcttaagaag ggggggttga attaagatat tccaaactac ttccccaatt aaaatctatt 120
 tcaactcttt ttcaagttat aaattccctt aacaatgaac ttcttaataa ttaattcaaa 180
 taagacaatt tgaatatgaa tatcaagcaa taataaacia aggagataaa gggaaaagaa 240
 agtccaaact caaattatta ctggttcggc ccaccttggg gcttcgtcca gtccccaacc 300
 aaccggttgg aaagtccac tatctggtaa attcctttta caagtcttaa ccacataagg 360
 acaatccttc cttgggggta aaaattcctt aacaccagaa aac 403

<210> 18586
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18586

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 taccttccta gcacagtgtc caagtttttc tectgttget ggttgggtgat cctcattctc 120
 actctcactc tcagctaaaa ggcgcctagc agtgccagaa atatcagaga aagagaaaaa 180
 agtctgaaaa tgtgatgtgg cttttgttaa ttcttccttt ccattatcct ttagactgca 240

aggaagcata tggtagtcc aaccactgg aacacaaatt ctgattatcc cattttgtgt 300
 tattgtcagt agcagagaaa taaagcccaa tagcatcaac tctgaaacga agacagaaaa 360
 cagaaaagga aaaaaatatt gcgaaattaa tcacatccca attntcataa cagaagtccc 420
 t 421

<210> 15587
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 18587

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 gacatcaatc gtctactaca aattagagag acatatgggt tgacagggtat gtttgattct 120
 attgattgca tgcacggaat attgaaaaat tgtctagttg cattacaagg tcaatattgt 180
 agaagtgatc attgcaaacc catagtaata cttgaaggcg tcccgtaca agacttgtgg 240
 atttgacatg cattattatg gagttgtgga ttcaaatgat gacattaatg tgtaaacca 300
 atcatttgtg tttaatgaca ttttgaagg ttgagctctc tagtgcaatt tacaattaat 360
 gtaaccccat ataatatgag atactatatt gtagatgacg tttatcctga tttggatact 420
 tt 422

<210> 18588
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18588

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 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tttaaataac tgggaagcca ttgaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaatcta 240
 gagatagatg gtctgaagag gatagaaaac gactacaata caacctaaaa gccaaaaaca 300
 taataacatc tgccttagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420

ngataaatgc actaac

436

<210> 18589
<211> 347
<212> DNA
<213> Glycine max

<400> 18589

accaagaaaa aaccactttt acatgcccct ttggtgtctt tgcttacaaa aggatatcgt 60
ttgggttatg taatgtccct gccacctttc agagatgtat gctagccatt ttgttgatct 120
ggtaaaaaaa tgcacgatg tgttcacgga ttatttcttt gtctttggat tttcctttga 180
ccattgttta tccaacttgg aattgggtgtg accacaagat ctogtctcga gggattgaag 240
tggacaaggc aaaaattgat attattgaga agttgcctcc acttatgaat gtgaaaggca 300
tccaaagtta tctcatatc gcccgacttc tatcgagggt tcataaa 347

<210> 18590
<211> 433
<212> DNA
<213> Glycine max

<400> 18590

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taaactgaac aaggctctct atgggctgaa gcaagcacct tgtgcatggg ttgaaaagct 120
ttcagcaact ctcatctctc ttgggttcaa ggctagcaag tgtgaccctt ccttatttgt 180
atgtcatgtg gaaacacaac ttatgcgctt gtctatgtgg atgacataat ccgcactaga 240
aataatagtg ttctaattca gcaacttatt tcatagctaa actctatctt ctctcttaaa 300
catcttggca agttggacta ctcccttggg attgaagtca actataattc cgcaggttct 360
gtcatgcttt ctcaaaccac ataatcttca gatttgcttg aaagagtaaa tatggaaaaa 420
gctaaaggaa ttt 433

<210> 18591
<211> 409
<212> DNA
<213> Glycine max

<400> 18591

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acgttattgt cgtttgaatt tgctcagagc ttcaacattc aatttcgagc atctcgatat 120
gttacggggac tcaatcagac atccgagaaa aaagttattg tcgtttgaat tagctcagaa 180
gttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatcata cattcgagaa 240
aaaagttatt gccgtttgaa ttgctcaga ggttcaacat tcaatttcga gcgtctcga 300
atgttacggg gactaatcag acatccgagt aaaaagttat tgcgttgga atttgctcaa 360
agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactccatc 409

<210> 18592
<211> 389
<212> DNA
<213> Glycine max

<400> 18592
tgtaatcgat tacacacata cttgaatcga ttaccagatt attttttcag aaaacattct 60
caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatatgtga 120
cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatac tcttataaaag 180
agaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240
ttatttgagc gctcaaattg atcaatctat ctctttcaag agagatttct tcttttcttc 300
ttcttcattt tgaaaagggg ttaagagacc gagggctctt tgttgtgaaa taattctaaa 360
cacacaggaa tgcgtgtcct tgtgtgttt 389

<210> 18593
<211> 367
<212> DNA
<213> Glycine max

<400> 18593
tgatcaacac ttgcacagtg gtcgatgatg catgggagat cctgaaaatc actcatgacg 60
gatcctccca agttgaagat gtccagattg caactgttgg ctacttaact cgggattctg 120
atgatgatcg aggaagaatg tattcatgac ttccacatga acattcttga aattgccaat 180
gcttgcactg tcttggggaga gaagatgaca gatgaatagc tgggtgagaaa gatcctcata 240
tccttgcta atagatttga catgacagtc actacactag aggatgccca cgacatttgc 300

cacatgagag tagatgaact cattgattct cttcagacct ttgagctagg actctcggat 360
agggctg 367

<210> 18594
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18594

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ctattgtgaa ttcttttagtt cctgaatgta caaccttaaa attgttgctc gttccctct 120
ttgctaaaac atcaagagct gtaactacgt cactaatcaa aggtctggta tcagcttct 180
tctgaataca cattgctgca actgctatgg cttgggtgtag accctatggt gggtagttcc 240
ctttcatcaa tggatcagcc attgatgaaa atttccttct gtctctgaat acgggttggtg 300
ccttataaaa aadaacatta tgaatgtcaa ttgctgaaca tttgtgcata ttattggtct 360
tagct 365

<210> 18595
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18595

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tcaatgtcga gcatctcgac atgttatgcg ctcaaatcgg acatccgtgt gaagaggat 120
gaccatttga gtttctcgag agcttccatg gatcaatttc gagcatatgg tcctattatg 180
tgcccgaatc tgaccttcgt gtgagaagtt atgaccattt gaatttctca agagcttgcy 240
ctgtttaatt tcgagcgtct caatatattg taagcgtgaa tcggagctca gtgtgaaaag 300
ttatgaccat tagaatttct ccaaagctta cttgggtcaa tttcgagcat ctagacatat 360
tatgtgcacg aatctgtcct tcgagtgcac agttatgacc atttgaattt atcgagagct 420
tacgctg 427

<210> 18596
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18596

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 tagccaacaa agggagaaaag aagycagact tcgaaccccg atattggggtt tgggtgcaca 120
 tgacaaatga aagggtttccg gaacaaagga aatcaaagct tctaccatgg ggagatggac 180
 catttcaagt gcttgaaaga attaatgaca atgcttacia agttgagctg cccggtgagt 240
 ataatgttag ttccaccttc aatgtctctg atttatctct ttttgatgca gatggagaat 300
 ccgatttgag gacatatact tctcaagatg gagagaatga tgaggacatg accaagagcc 360
 atggcaagga tccacttgaa ggacttggag gacctatga 399

<210> 18597
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18597

tcttcttggt tctctcccca tttgaaacca acatttttct tgagcacttc attgagaggt 60
 gctgccaatg tgctaaaatc cttcaciaat cgtctataaa aacttgctaa gccatgtgtc 120
 gcaacctacc cttcggcggg agggcgatgc gtgactcgcg ggatgcgtgt tccacgaaag 180
 gaatacgcgc ggagtcgcca ctaatgttta tttgaggaaa acgtcgga aaaccgaaaa 240
 gaagcgatct acgaactttt aagtgaagg ctcgggagtt gtatttacgc gtggggaagg 300
 tattagcacc ccacacgtcc gtcacaaggg acggcagcct ttaatogaat gtgcaaacad 360
 gactttgatt tttacgttcc cttttatgtc cttatatcct ttataccctn tntatanttt 420
 tttct 425

<210> 18598
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 18598

actcagctgt cattggcgag caaataaaat ntttttcatg atagcatgga tagtattaag 60
aaagttgcaa ttgattcaga cagatgttgt agggcctcaa agaacacctt cattgaaagg 120
caatttgtat tacactatat ttattgatga ctttttcttt aagttcaaat caaagggtggc 180
tgaaatTTTT tgoatgttca aagtcagta gaga-tgaaa gtggtctcaa aattcaaat 240
ttgaggtctg acaatggcat caagtaacac tctgcaaaat ttaatcaatt ttgggagat 300
tctgacatcc aacatcaact tactaatcct tataccccac aacaagatgg ggttagtgag 360
aggagaaata aatatatctt ggagatgatg agatgcatgt tgtatg 406

<210> 18599

<211> 312

<212> DNA

<213> Glycine max

<400> 18599

ttttatttca aaagattctc atgaaacttg tgacattggt catttagctt aacacaaacg 60
aaagccctat tctcttaatt cgagaagaag ccctaaaatt tttgagttga tgcctatgga 120
tatttgggga ccatttttta aatcatcaat tctgtgacat agatatattg taactatact 180
tgatgatgat agtacatata ctgggggggc tttattaaaa tcaaaaagtg aagtgaaaac 240
acatgttcaa aactttatta atctgatcga aatcaatcc gaagcaaaaa ttaaatgcat 300
tcgattcgat aa 312

<210> 18600

<211> 429

<212> DNA

<213> Glycine max

<400> 18600

actcagcttc taattttggg attgatgctc ttaaactgtt ggtatatatt aaactgagtt 60
ccaaccaagg ctgtctcaaa gacacctttt gagttattca agggttggaa accaagtttg 120
cgacatatac gcgtataggg atgcccgtct gaagtaagaa tttataatcc acaagagaag 180
aaactagacc ctaggactat tactgggtat ttcattggat atcctaaaag gtttaaaggg 240
tataggttct attgtccatc ccacaacact aggattgtgg aatcaaggaa tgcaaagttt 300

catgaaaatg acttgatcag tgggagtgat caatttcaga acattttcttc tgaaagggat 360
 cactatgaag ctgaaccttc tgggacaagt aatagggttg tagtcattct caccctcaa 420
 gttaaaatg 429

<210> 18601
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18601

gacctataaa actcagctgt atcatacaca catctgaatc gatatcgttt agtttttcag 60
 anaacattct caacagtcac atctttttgt gtgggtcttg aatggctatc ataggcctat 120
 atatatgtga cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatcc 180
 tcttataaag agaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt 240
 caataaggaa ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct 300
 tcttttcttc ttcttcattt tgaaaagggg ttaagagacc gaggggtctct tgttggtgaaa 360
 taattctaaa cacaaaggaa ggggtgtcct tgtgtgttta gaacttggaa aaggaatgta 420
 taagatagtg gaactct 437

<210> 18602
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18602

ttccattctc ttggaagttc atcattggat ttttcttctt ctggaggatc tttattgttt 60
 cctttatcat ttcttttggg atcttgttca tgaatattca tatgttctaa agaactctgca 120
 atatcatcta gcatattctt tcttgacaag atagcattag attcatcaaa ggtaacatga 180
 atggattcct cgatattcat agttctttta ttatatatcc tatatgcttt gctttgtaat 240
 gaatatccaa gaaaaatacc ttcatcatat ttgcatcga attttcttag attatctcta 300
 ccattattaa gcacaaagca tttgcaacca aaaacatgta gatgagaaat attagggttt 360
 ctaccattaa ataactcata tgggggtntc tttaanataa gtcttattaa ggcctattc 420

atgatct

427

<210> 18603
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18603

aactcaagct tgtaggctac atttacaacc atacattggc tnngatcact atgaggaaat 60
tctcacaaaa aattgaatta gtgagacatg gagttacaag atttgctacc actttcttaa 120
ctttgcaaag attgcataag caaaaggcca atcttataag gatgtttact tcagatgaat 180
ggttgaagtc taaggcagct aaagagccca aggggaagca agcaacagat gttgctctta 240
tgccatcatt ttggaatgat gttgtctatg ctttaaaggc tatagggcct cttgtaagtg 300
tgttgagggt ggtggataat gaacaaaaac ctgcaatggg tttcatttat gaagcaatgg 360
atagggccaa agaagcaatt catagagctg tcaataacaa tg 402

<210> 18604
<211> 417
<212> DNA
<213> Glycine max

<400> 18604

ttacgatttc aaactccaca aataagagat gctttattat aattaggtga atttaatgat 60
ggtcttaaaa taaaaagcga agcggattgt ttagcaactt atgaacttga aaattttgag 120
tttttattaa gtatgactat ttggtatgac atattatttg ctgtaaactc cattagtaaa 180
aagttacaat caaaagatat gagtatggat gccactatag aacaattaaa aggtcttatt 240
ttatttttatt tttgaaaaat atagagaagg tgaatttgaa aatactataa tttatgccat 300
agaaattggt aatgaaatgg agatagaacc taagtttcat gaaaaaacat gtagtttgta 360
gaaaaaaaac aatatgatag aaatattgat aatgaagttg aaaatcgcct aaagaat 417

<210> 18605
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18605

gcacgtatcg gtcaagtgtg tggaccacgt tgtattcatt tgctcatcga taatgggtcc 60
agtttaaacg tgatgcccac gagcactttg gagaaattac cattcaatgc ttcccaccta 120
aagccaagtt ccatgggtgt tctgtccttc gaaggcaccc ggcgagaggt taaggagag 180
atcgacctcc ctgla aah agacctcac acctgtcaac ttacctcga aataatgat 240
ctt ctg ctgtgtgggg cgcctgtgga tccactcggc agttgtt 300
aaat c gtagtggag ggcactctgt catcg atca 360
ngcgaggaag acatcttggg aagctgccc cctatgtgga ggccgcagag 420
gagtc 425

<210>

425

DNA

<213>

Glycine max

<223>

ensure at all n locations

606

gg gatta aaaaacacat aactaggagt ggaaatatat taaaagttcg attatatttg 60
ttgttgacaa atagagaata gaggatagta cacactaata ttacaataat aggaaaatgg 120
aataattcat gtaccaaata aatgataact catatttgat gtgaaaaata tgttacccaa 180
actgtcgagc ttgtaaatca acatatgata ttttaactta atcaagtga ttttaagttta 240
atataattgt gttaaatttt ttgataaaga attttgatag ttataatagt tataatgtga 300
tttttatata aaaataataa aaatcattag tcaatctggg taaagaaaga agacaagaca 360
tagaggttac aagttttaa tctccaaaac gaatatttca nacaaaactt ataataaatt 420
aacat 425

<210> 18607

<211> 385

<212> DNA

<213> Glycine max

<400> 18607

acatgaaaat tgaggaacca aaccaaattc atatgggaga ggcgtgagag ctaacgaagt 60
ttctctgcta cactttgaga tggaaattca attgcagcat ccgaagaagc acttgagagc 120

gagcacatca caaggaggcc aagggagaag caacaaccac atgtcccaaa gcaagtatgt 180
 tggggtgagg caaagagcat cagggaatg ggttgctgag atcaaagaca caacacaaaa 240
 gataagaatg tggcttgga catatgagac agcagaggaa gcagcaaggg cttatgatga 300
 agctgcatgc ctcttctgtg gatccaacac tcgcaccaac ttcctcacac gtgtgttctt 360
 tgattcccct ctcttctgc ggatt 365

<210> 18608
 <211> 353
 <212> DNA
 <213> Glycine max
 <400> 18608

aattgaggaa cccaacaaa tctatatgtg tgagttgcga gaactaaggg aggttctctg 60
 ctacactttg agatggaaat tcaattcccg cattcaaaga aacacttggg agccagcaca 120
 tcaaaaggaa ggtaaggag aaacaacaac caccaaacca aaagccagta tgttgggggtg 180
 aggcaaaaaa catcaggga atgggttgct gagatcaaag acacaacaca aaagataaga 240
 atgtggcttg gcacatatga gacagcagag gaagcagcca gggcttatga tgaaactgca 300
 tgcttccttc gtggatccaa cactcgcacc aattcatca cactgtgtgc cct 353

<210> 18609
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 18609

aggaatttgg acaaagacgc tagtatcatc gttcttttgt caaggttagc ttatgaactt 60
 ctccaacggt gataggacag tgcatttcta gtatcatcgt acaattgtca aggttagctt 120
 caattccccg gtgggtgatc atgaaaccca agaattttct gcctctaacc ccaaagggtg 180
 atttttcaag attgaggcgc atgttatact tgagaatctc tttgaacacc tctgccaat 240
 ttgccacatg tttggccatg ctatgagact tgacgaccat gtcattcaca tagacctcga 300
 cattttgtca tatctgttgt ttgaagaccc agtcataag cttttgttat atggctccta 360
 cattctggaa gtcgggcgca ccatccataa gcttttcgat gatgggaaag ggatatgcat 420
 ccttgg 426

<210> 18610
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18610

ntgagctcaa tagctccaac ctcatctata ccccarattt agaatggcca aggtgctacc 60
 aagacgttca aaggtacggc cggagcattg acattatcgg tgaaggcctg gcacttgtgg 120
 cacttcctca catggatgca acaatagttt tccatagtga gccagtaata ccctaccctc 180
 agaatcttct aggccatggc atgcccgttg gcatgtgttc caaaggatcc ctcatgcact 240
 tctactagca tttgcttagc ctctttggca tttacacatt gaagcaaaac catatcatgg 300
 ttcattttgt acaagatatt tccacttagg aaaaagcagg ctgcacaaac attactcagc 360
 tcagcaagaa caatttctta taatattcaa ccaatttaga atcaagaact caaca 415

<210> 18611
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 18611

taacttgctg attgctgtga cttacagtct tcaccgggct caccttatgt gtcctactga 60
 ctgtgaagtc accctcactg gctgacagac cgcgagggtc agccatacag agatttgacg 120
 aacgccacca tgcttgctct acaatctcgc taagacgac catctatgat ggccggtctg 180
 ttcactgcca ctgactattc cgccatgacg ctgagatttt atctctgtac agctctctct 240
 ggaactgcca gagtgacctc tgagaccac tga 273

<210> 18612
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 18612

cttgattttc tcacggtgca cttggacccc atctctacca actacaaacc ctatgaaaac 60
 tatattatct acacaaaaag tacacttctc tatattatca tagcgggtgt atttcctaac 120

gactaaaata acttgccctga gatgtcctaa gtgatcatct atgctccaac tgtacactaa 180
aatatcatca aaataaacia ctacgaatct acctacgaaa tcccttaaga catgatgcat 240
aagcctcata taggtgctta gtgcattagt gagcacaaaa ggcatcacta gccattcata 300
caaaccaaac ttgggtcttga aagcgggggtt ccactcatca cccgttatca tactg 355

<210> 18613
<211> 278
<212> DNA
<213> Glycine max

<400> 18613

agacgctcgt tattgagcta cggctgctct cgagaggatc gaatgggcat tagttgtgga 60
acgaatgtgc tatgagggga cgtgactcgt ctatacgtc gaaattgagc gacggatgct 120
ctctagaggt gcgaatggtc ataggtatca acacggatgt ccgatacgtg gacgtagtag 180
atcgggagcg tcgaaatgga acagcggaag ctctggagac tatggaaatgg taataacatt 240
ccactatgat gttegacttg ggaacgtaat atatctag 278

<210> 18614
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18614

cgagaaggag gaaaggtgat tggagatgcc acttcaagga gaagatgagt cgagaacaaa 60
ctcaccacca tatgaagcca tggataagag cttgaaagta ggagaagatg agtggaggga 120
gagggagaga agagggcacg aaatttatgc ctcaaattag gtcaaaacat taaagtctaa 180
tttcttaaatt gatcaaaactt gaaaaaatgc acacacaagg cctctattta tagcctaagt 240
gtcacacaaa attggaggca aatttgaatt tctattcaaa tttcacttga attagaattt 300
gaatttgtgg atccaaattt ggagccaaaa ttntactaac tatgagtaat gaatttcagc 360
tat 363

<210> 18615
<211> 317
<212> DNA
<213> Glycine max

<400> 18615

tgaattcaaa aaaaaaaciaa aaattacaat tacaattttt taaaaatatt gtaatatttt 60
atttttagctt gtgctcacgt actcccacgt agcccatatc ctcacttgtc tcagcaccgg 120
gtaccccatca atcctaccaa gcttccgctt tcaatgagct cttttttaag gttgagagaa 180
gaattgattt ggtctatgga ggtggtagcg tgggtttgat ggtctatggt tctcagggcg 240
ttcatgatgg tgggagccat gttctggggg ttgacctctc tctctctctc tgtatctgtc 300
tctctatcct aatctca 317

<210> 18616

<211> 314

<212> DNA

<213> Glycine max

<400> 18616

tgacctttct agctacaggt acaatcccac gtggacgaat catcccaccc ttacatgggt 60
gagtcttcca caatagcagc aacaacaaca gtcgctactg caatagccct ataaatagca 120
tatagctgag gcttcctccg caccttcctt tgaagaactt gtgaggaaaa tgactatgca 180
atacatgcag cttcaacaag agaccaaagc ctccattcat agcttaacta atcaaaggg 240
acaattgcct acacagttaa atcaacaaca ttcctacaat cctgactgac taccttctcc 300
atctgtccag aatc 314

<210> 18617

<211> 310

<212> DNA

<213> Glycine max

<400> 18617

atgacgctct ccagcaacag gtacaatgcc ggatggagga atcatcccaa ccttagatgg 60
tcgaatcctt cacaacagea acagcaacaa cgaccttatt tacaaaatgt tgctggctta 120
agcagaccat actttcctcc accaatccaa cagcaacaac aacaacagca atagcccat 180
aaacaacaga cagttgaggc cactatgcaa ccttcatttg aagaacttgt gaggcgaatg 240
actatgccaa acatgtagct tcaactagag accagagcct ccatatatag cttaactaat 300
tagatgggac 310

<210> 18618
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 18618

ttcattgaaaa tacaaaaaaa agtccctact acacagacta cccaaaatgc cctcaaatac 60
 aaggctaaaa ccctatacta caagaatggc caaaatacaa ggcccaaaag aaggaaaaac 120
 ctattctaata atttacatag ataagcgggc tcatacttag cccatggggc caaaatctac 180
 cctaattgctc atgagaacct tacggccttc ccttggatct ctggccaat atactcggag 240
 tcttctatcc aattccctaa cgaggtagga ttacatcact atgcatgcat caactttgaa 300
 taacacccac acggaaatgc tcttgcgtta ctcaaatttc tcaatttcag acacgttgat 360

<210> 18619
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 18619

agctttttatc atgggttatg gaccatttca agtgcttgaa agaatacatg acaatgctta 60
 caaagttgag ctgcccgggtg agtataatgt tagctccacc ttcaatgtct ctgattttatc 120
 tctttttgat gcaaatggag aatccgattg atgacaaatc cttctcaaga gggagagaat 180
 gatgaggaca tgaccaagag caatggcaag gatccacttg aatgacttgg aggacctatt 240
 gatgatgaca tgaccaagag caagggcaag gatccactgg aaggacttgg aggacctatg 300
 ac 302

<210> 18620
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 18620

tttcttggtt ctacacgtat gtatcagctc caatagatct ttctgtctcc atgctctgct 60
 tgttgagaaa gaaatcgggt gttgcttacc aaggagacat cctttacaca cttcattggt 120
 ctccctttatg cttggaagat ctctcatcat gttctttctc tgaacaact tcaaggcatg 180

tgtgttgaag tggccaaatc ttcatgcca tagccatgaa tcatcaactt gtaccttcat 240
 gccaatgggt ggtgcatatt taaatttaga gggaagcttc tattgctctt attcatcttt 300
 acttgggcta tctcagacct ttctatattgt tgcctaagat ttgcatacac ctcctttaaa 360
 gtgaagcgtg tgcctctctt caatcatt 388

<210> 18621
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 18621

ttcttttcac ccttaccgac aatggaaaaa gcttttaatg gaagtcaaga gcatgaaagt 60
 gcactgatac cattaactag tcaatatggt cttgagcagg ttgaagacat ctatactata 120
 aagaa ggataaaaag actaactg gcatatggaa gatgaggccg 180
 a. atcttg acattgtat caatgttata 240
 catgtggaga caaatgtg tggcgc tcat tca 293

18622
 <
 <211>
 <213> unsure at all n locati
 <223> unsure at all n locati
 <400> 18622

tactaagctt gatccacatg gcaccgtctt cctgatcgcc ctaattttct tccaccaaca 60
 agattattag tagcaaccaa catgacattc ttttcagctt ctatggcccc aaatggcgcc 120
 tccttcggcg taacctcact tcaagaatcc ttcaccctc acaagttaag tcctattcac 180
 atgctcctgc aacgccttag atgggttattt ggttgctact tatgcctctg tgaatttcct 240
 ggtagctgag atcgggaggg acccaacagc ttgggatgat cctttggcct ttaagccaga 300
 gaggttcatg aacaatggtg aacaaaatgg aggcacaaat tttgacataa tgggaagtaa 360
 agagatcaag atgatgccgt ttggggcagg gaggagaatg tgtcctggct atgctttgng 420
 aaatttgcac ttagag 436

<210> 18623

<211> 407
 <212> DNA
 <213> Glycine max

<400> 18623

agcttgataa aattttaaga aaataagtac tagctcaaat ggttaatagt ttctataatt 60
 ttaaaaata taatgtacat taacattagt gacaaaataa taaatggaat agttataccc 120
 gatccaagaa atatttagca acattgggaa gattatgtaa ttcttttttt gtcttgtctg 180
 tttcttgaac agcaggatct ttccagattt catctaccat aggagcatac tcacgcgttg 240
 cagcagggaa gaaggcctcc aaatctccga tggccataat atccagtaat cagtcagaaa 300
 agtgcttgaa tctttgatta tagagtaaac actcaccttg ttttcgtcag ctgctgtctc 360
 tgctaaattt attatacaat tagattcatt cacataactc tagcctt 407

<210> 18624
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18624

tctaaactnt gtacaagaat gaagctctga taccacttgt tagattagtt gcttcagata 60
 tcttaagaag ggggttgaat taagatatca caaactattc cctaattaaa aattctaatt 120
 tgattttaac ccaaactcta agattccttt taaaatgaat tcctaaataa ttattcaaat 180
 taaacttact gaatagaagc aataagcaat aataaataaa agagtttaag ggaagagaaa 240
 gtgcaaactc agttttatac tagttcggcc acacccttgt gcatacgtcc agtccccatg 300
 caaccgcgtt gagagttcca ctcaatcgca aaaacccttt acaagttctg aaccacacaa 360
 ggacaaccct tcctttgtgt tcagatttct ttacaacaag agaccctcgg tctcttaatc 420
 cctt 424

<210> 18625
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18625

gctgtgaata atagtcattgt tcataaagaa gagaaaaagg tttttattta tacatgtatg 60
 taaaaggaaa tgtgtataga agaattcttg cgtgtaaatg atgtgtggaa aggaattctt 120
 gtgtgtgtga gcaacgagtg tatatgaaga aacttttgtg tgaactataa gtgtgtgttg 180
 aaaaaaatga aaaatctttg aatgtgaata gggtttgtat atagactata tgacgtaaag 240
 agaagagttc caatgcgtct acagaaaaag tttgtcatgt ataagaatat agatctacaa 300
 agaaagggtt tcttcataaa ggaccacagg tgtataattn tgtgaatgaa acaaaaagga 360
 aaaagaaaga aagaccgcga aggtcgacat gttatagtta agaagtat 408

<210> 18626
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18626

tgctccanag aataagtga ctacatcttg tttatttctt ttgcaacat ccccttttgt 60
 accccaaagg tgaagatggc tatagaccaa atattcttca taaggatcat ccaaatactt 120
 atgttgcaaa gaggaaaaaa gttatcatgc gtgaatgcaa tcaagggaca atgaagctca 180
 cacaatgcta cattcaagaa gattgtttca acaatggatt attaatgaat attgtatgat 240
 tgagtctcaa aaactaaact atgttagaaa acatcaacag gaactcagag ttaacaagta 300
 catgaattta aatgcatgta ataatgagcc cctaaccxaa ggcaatgaan aaggtaagag 360
 aattatacta ccaagctttt ttgctggtag ttagagatat atggaacaac tgtatttcga 420
 t 421

<210> 18627
 <211> 391
 <212> DNA
 <213> Glycine max
 <400> 18627

tgtcttttct tgtttctctc cccatagaa accaacattg ttcttgagca cttcattgag 60
 aggtgctgcc aatgtgctaa aatacttcac aaatcgtcta taagaacttg ctaagccatg 120
 aaaactctc acctcggtca cagacttatg ttagggccat tcttgaatag ccctaaccct 180
 ctctgatca acttgactc cttttgaact cacaacaaaa ccaagaaaca caacatgtgt 240

agtacaaaag atgcattttt caagattggc atacaatcgt tcttttctaa gcacagtcaa 300
gacagatttt aaatgatcaa ttgcaaatac aagcgaagtg ctatagataa gactatcatc 360
aaagtacacc acaacatact ttcctatgaa c 391

<210> 18628
<211> 412
<212> DNA
<213> Glycine max

<400> 18628

agtgtcatag tcatagcatt attgttagta tttcttatag cccataatgg ttccgataat 60
gtttcatgcc aacacctgtg tttcttttca acaaattttt tgatttaatt tacaataatc 120
ttgttagtgg cttctgcttg ttgttagct taggcataga aaggcataaa ataatgatt 180
tcatgcaaaa ctattgagcg aatgccacta ccttgtcaca tgtgaaaata gtacctggt 240
catccattat agcctctggt atcccaaata tataggctat ttggttttgg atgaatttga 300
tgatgtcatt ttgagtaaca gagaccatca gttgtgcctc caccacttc gtgaagtaat 360
gtgttgccac aataatataa ctatggcatt tagaagaact aggggtggatt tt 412

<210> 18629
<211> 399
<212> DNA
<213> Glycine max

<400> 18629

agcttatgaa tttaaattgg atatgttatg aatatatatg aaaatatcgt tcttttgcag 60
atacattcaa gttaaaggtc aagccagga agacatacct tatgcgtttg atcaatgctg 120
cactcaatga cgaactcttc ttcagcattg caaatcacac cctcacagcg gttgatgtcg 180
atgcaattta tgctaagcca tgtgacactg acactattct cattgcccct ggacaaacct 240
gcaatgttct tctcaaaacc aaatctcact atcctaattg cacattcttc atgagtgtca 300
taccatatgc gactggacaa ggtacttttg acaactcaac tgtggctgct atccttgaat 360
atgaagttcc accacattgt gttcactcaa caacttcag 399

<210> 18630
<211> 427

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18630

ggttaaagaa aaataaaaaa agtaaccaa tattgaccnn ataggttatt cagagagcaa 60
tcaagaacat ctatgatac ctgtgtgact ttgtataatt ogtaataatt tgacctatgc 120
tactatttac aatggtagct ggagccatga acatttgggc aatttcaaaa acttgcacac 180
tttctattat agtaccaatg cctccaattg ctttcacaac agcttcactg cccaagtac 240
ttaatctaca gtatacaagt tgtcctttca ccttttttgg ctctaaggag tcttcatagc 300
ataatctgtc aatgcattga aatggactt tgtaatatg gaaagcttaa ctaggtgttg 360
tcaaataaac aaaaagaaaa ttacttagca ttntccttgc ttccaaattg tataatcatt 420
ccttatac 427

<210> 18631
<211> 439
<212> DNA
<213> Glycine max

<400> 18631

ctcgtacccg ggatactcta actcacctgc cgcacgcttt cttttactta ttgtgaagga 60
attgagtacc ttgagacctt ctctcctgat gagaaaattg agacaattcc agctattctt 120
gcttaagact gcatcaattg ctggaaactt cagctacttg atgttaacaa tgcattcctt 180
catggaatcg catctgagga agtctacatg gtccctcccg ctggcgtcaa tgagtcacat 240
ccatctcaat gttgcaaact ccttaagtct ttgtatggc tcatacaagc caatcgagca 300
tggtatgaaa aatatccct tttctcttg tcttgtggat atcatccagc tcatgccgat 360
catagcctgt tcatcaaac taatcagtc aactctatag actttatata tttattgttg 420
gcggcattgt gctaactag 439

<210> 18632
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18632

ggancnangg cagggatntc accagaaant aatgtttgtt ttttacacnc naaagacagc 60
 cngccgcact caccacggnc actacgagca ccgggggang ccatncgggc tctgcaacgc 120
 accgtcaatg tttcaagctg ccatgaacaa ccttctcagc cctttcctgc ggaagtctgc 180
 gacagttttt ttttacgaca ttctgatcta cagcgaaatc ttcagtgate accttcatca 240
 ccttca 300
 cttca 360
 acctgatcca acaaatatcc aggcctatcgt caaatggatc acgcctcgat cttccaa 420

<210> 18633
 <211> 423
 <212> DNA
 <213> Glycine max
 <223>

gctgttaga caagtggcct tagaaatctt aagaagtgtt ggggtgggttg aattaaagatt 60
 ntacaaaacca tcccccaat aaaaattcta ctttgatctt aatgcaagtt ccaagttccc 120
 attcaaa attcaaa attaaacaat ctgaatgtaa atgttaagaa 180
 accataaata aaggagttaa agggaagaga aagtgcaaac acagttttta tgctgggttcg 240
 gcaaagttcg ttgcctacgt ctagtcccca agaaaccac ttgggagttc cactatctcg 300
 canatccttt acactttctg aaacacacaa ggaaaaccct ttctttgtgt tcagatactt 360
 tataacaaga gactttcagt ctcttagccc tttgattaga aagagaagaa gaagaagaag 420
 atg 423

<210> 18634
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18634

ctataacana tctaaaacac atagtttgaa accaaaggga gtactatttt ctgcctatc 60
 ttttctctt tttaaaagaa caagaaaaat acagaggaag ggaatccctg gaggaacca 120
 ggaagaacaa aaaactcaga attgaaagaa catgcaatgg tcctcttgat tgccccatat 180

ttcaagcgta atatcgttta actacatcgg agttcacggg cgaggggcaat tcctcgccat 240
ccatgtgggt gagtatcaaa gcacccccag aaaaggtctt tttcaccatg aaaggtcctt 300
cataatttgg ggcccacttg cctcgtttat ctttaacagc gtgggacatc ttcttcaaca 360
cgaggtcccc ctcgttgaac ttgcgcgggc gtaccttctt gccgaatgcg ttctttatcc 420
ttcgtgata caa 455

<210> 18635
<211> 233
<212> DNA
<213> Glycine max

<400> 18635

tgctttttga acgcatactg tggatacaac tagatccgga cgaacgctcc agatgaggag 60
aaaatggaat teatcactga agacgctaac ttttgatata ggggtcatgcc cttacgccta 120
aaaaatgtag gcgctacata ccagagattg atggaccaga ttttcaaaca atagatggta 180
caataagttg aggtctacat tgacgacatg gtgggtcaaata cccatagcat acc 233

<210> 18636
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18636

tttcttctgg tatcaattac gagcgtctcg atatactacg ggacataatc ggacatccga 60
gtaaaaagtt attatcgttt gattaggcta agagcttgtg ttttgaattt cgagcgtctt 120
gatataattac aggactcaat cagaaatccg atttaaatgg tattcattcg gacatccgag 180
taaaaagtta ttgtcctttg aatttgctac gagcttccgg tttcaattac ctgcatctcg 240
atatactatg agacacaatc ggacattcga gtaaaaagat atcatcgttt gaatntgctc 300
agagccttcg ttgtcaattt cgagcgtctc gatataattac gggattcatt cagacatccg 360
agtagaaagt tattgtcatt tgagtttgcct catagcttct at 402

<210> 18637
<211> 413
<212> DNA

<213> Glycine max

<400> 18637

agcttccatc attactccac ctctttttgc aacagattgg atagtggaag ggccactttg 60
ctaaaatcct tgataaagcg cctataaaac cctgcatgac caagaaaaga acaaacctct 120
cgcacccaac aggggtaagg caattgtgaa ataacagcta taccttgttc taccatgaag 180
tgacattttt caaaattcag cacaagggtt gtttcaatc atctactaag aactctatct 240
agactatcca aacatgtatc aaaagaggat tcataaacag taaaatcacc cataaacacc 300
tgtatgcaac tctctaaaaa atcattgaaa atgctaagca tacaccgctg gaaggtacca 360
ggggcggttg attggccaaa gggcatcttc ctatagacaa aagtgcctaa ggg 413

<210> 18638

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18638

tggaaggtag tcataacctc canaatatat gtatgtgtgt ttatgtagtt agataccttg 60
gatatgcatg tatataacaa acataacctc caaaatatat atatgtatgt ttaggtagca 120
agataccttg gatatgcatg tatatagcaa aaatatctca caaaacatat atatgtatgt 180
ttaggtagca agataccttg gatatgcatg tatatagcaa aaatatctca caacatatat 240
atatgtatgt ttaggtagca agataccttg gacacacatg tatatagcaa aatacctcac 300
aaaaatatac atatgttttag gtagcaaaat acctcatgga aaaagaaaaa gagataaaaa 360
agaaaaaaaa ataataataa gttgtctagc taaaaaaaca acatgcttgt gaaaagagat 420
aact 424

<210> 18639

<211> 393

<212> DNA

<213> Glycine max

<400> 18639

atcttgtagc accacttcac cctaccttgc cttttgagag cggcaacaac atccatcgtg 60
gtacctgtct tccatttaac atgctcagtg taagtaacaa agtaccgcag accatccctg 120

agaaaagttct taaagactct acgagccaaa caacgaatcc cgagtttcgt aatgtttctgc 180
 atgttgctgc acaacaccac cttgtgcccc ttggctcctc cctgcatcc ctcccatgac 240
 caccgtatcg gccgtgtca cctccaccac caccaccgaa gccatcgctt ccaccaccac 300
 caccgtcaat gcgggtttgc acttcatggg tagtgatgtt tggccatcaa ggtcttcgcc 360
 gtgcaaactg ctgttcacaa ccttcgctcc etc 393

<210> 18640
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18640

tcaacatcag accacttcca ggtgctggt tcttttactt ggatttgatg gggcctatgc 60
 aagttgaaag ccttggagga aagaggtatg cctatgttgt tgtggatgat ttctccagat 120
 ttacctgngt aaactttatc agagagaaat cagaaacctt tgaagtattc aaagagttga 180
 gtctaagact tcaaagagag aaagactgtg tcatcaagag aatcaggagt gaccatggca 240
 gagaatttga aaacagcagg ttactgaat tctgcacatc tgaaggcatc actcatgagt 300
 tctctgcagc cattacacca caacagaatg ggatagtga gaggaaaaac aggaccttgc 360
 aagaggctgc tcgggtcatg cttcatgcca aagaacttcc ctataatctc tgggctgaag 420

<210> 18641
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18641

tcaagttgct aggatagcaa cgtganccgt ccttcagttc gtctgagat gaaagctcca 60
 acaggcttct tttggttggg atgtgtgctc tatctcgcaa gattgcatgg tctactagcag 120
 tcatattctc aatcaattcc atggcttctt caggggtctt caattttatt tttccccctg 180
 tagaagcatc taaaagttgc taggattgtg gccttaacct gtcaatgaaa atatggagct 240
 ggattggctt tgaaaatcca tgagtaggcg tctttcttag taaccacga aatctttcca 300
 aagcctcact caaggactcg tctagaaatt gatgaaagga tgagatgaca gctcttcctt 360

cagcagtctt ggactctggg aagtatntct tcaagaaatt ttcaaccact tcat 414

<210> 18642
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18642

tgtgacanat ctcttgagaa aataaatatg ctcaatnntt tggtcttttt gaatncaana 60
gcaaaccaaa tgcaccttct ctaactcctt gatcataaag atctacttca gaagtgtccc 120
cttttggatc accatgataa acttctctgc ccatccaatc cgtatcaaac agaaagaagg 180
gaaaccatga caactgcagg tagacaggat tgaaatgaac ataagaagga tttcaaattg 240
gaagcaccac cactaggcta atagcattca caacacaacc gacttgaaaa caaaaatatt 300
aacagaaacc tttgcaaata aatactagta cataccaag tgagagccat tacaaccagg 360
acagaatgca tagcaggtgg caaatgcctt aaacttgtca acaagtttac caatactgct 420
ccaggcccat 430

<210> 18643
<211> 396
<212> DNA
<213> Glycine max

<400> 18643

agtcttttag aaaaatggcc ttagcaaact tcttatttcc agaaggaaat tcaatcaata 60
gacctccaat cttaaatgga gaggggtacc actactggaa aaccggaatg aaaattttta 120
ttgaggcaat agacttaaat atttgggaag ccatagaaat agggccttat ataccacca 180
cagtagaaag aatcacaata gatgggagca caacaagtga aagcataaca atagaaaaac 240
ctagagatag atggtctgaa gaggatggaa gacgagtaca atacaattta aaagccaaaa 300
acataattac atctccctgt ggaacggatg aatatttcag ggtttcaaatt tgtaagagt 360
ctaaggaaat gtgggacact ctacaattaa cacatg 396

<210> 18644
<211> 355
<212> DNA

<213> Glycine max

<400> 18644

ttgcttcttta gtttcagatg atgcagatga gtttgtagct acctcatgca ctctctctaat 60
gactatagca tcatatttgg cgctaaactg ttgggagttg gaagccatct tctcaattaa 120
atacctgact tcagcagggg tcatgtctcc aagggtctca ccactccacg catctatcat 180
acttctctcc atgttattga gtccttcata aaaatattgg agaagaagct gctcacaagt 240
ctgggtggtga aggcaactgg tgcataatct tttaaattct tcccaatatt catataggct 300
ttctccactg agttgcctaa tgcctaaaat atcctttctg atggccgcgg tctta 355

<210> 18645

<211> 403

<212> DNA

<213> Glycine max

<400> 18645

tgcttatatc ctcaggtagt tcagcaaata cttgcttcat ttctccaag ctcatatttt 60
ccaaaatgga cggccttggg gcaaccctca caatctcgcc gcctttaggt tcttaactc 120
gagcctcggc tttaatgatt agttctgaat ttgagcttgc tccacattta attataaatg 180
gtgaggtatt acccgattg aattgaagga cgttccactg tgccacatca gttccagatc 240
cagagcctgt atccgttgat ggcttgcgag aatgtgatag attctgaatg cggtcactct 300
cttcaggaat tgactgcac ataaaagagg gattaggaat cccaaaactc aattaaggctc 360
acgctcagac acagattcag atgccagaaa tgctgagaca gga 403

<210> 18646

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18646

tgcttataaa gaaaaatgat ggcattgatt taacctaatc acactatatt gaaagctatt 60
gaagaagttt aattattttg atgtgaaaca tgtgtctact tcttatgact catccatcaa 120
gttaaagaaa aatttgagta aaggaatttc ttcacataaa tactctcaaa ttattgattc 180
tttgttgcat ttgacaaact tctataggcc tgacattgca tatgtagttg gtagattaga 240

aaggatatact aataattctg atcattctca ttggattaca ttagaaagag ttttagata 300
 cttaaaagga atcattaatt atggcattca ttatacatgt tttctgcag taattgaagg 360
 gtttagcgat gcanattgga tttctaattc tgatg 395

<210> 18647
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 18647

tgccagaagt tcttagttgg ggatgctggt tctgtttggt actaagatga tgaggaggcg 60
 gaggatgaag atgagctggt agataatgat tctgaagaat ctgaggagta taagttcttt 120
 gaaaaagtgt ttgcagaaga tgggtgacctt aggagatatt atgagaacaa tcacaaggaa 180
 ggagattttt attgtttggt ttgtgggggt attgggaaga aggtatggaa gaggtttaag 240
 gattgtattg gactaattca gcaactccact gccatattaa ggacaagaag gaagcgagct 300
 cacagagcct atgcacaagt catctgcaaa gttgtagggt gggatatcga tcaaattgcca 360
 gctattgtgt taaaggattt ggattcctca ttggctggtt caaagaagct tttcgtga 418

<210> 18648
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18648

ttgtcattct ttcagagaga tgggtggacaa actactcaag gctcagttta tcagagaagt 60
 cagggtactct acctagatag ccaatgttgt catgggtcaaa aaagccattg gcaaacggcg 120
 tatgtgcatt gactacacca acctcaacaa agtgtgcacc aaggacacat atgctttgcc 180
 cagcatcgac aggctactcg actacgtgcc tgtgttccaa gtactgagtt ttcttgatgt 240
 ctatttagga tacaacaaa tcagaatgca cccccagac aagagaacac aacattctta 300
 actgaagatg ataatttttg ctgtagggtc atgccctttg gcctgatctt canacaacag 360
 atagaccata atcttgaggt ttatgtgaat gatatg 396

<210> 18649

<211> 450
 <212> DNA
 <213> Glycine max

<400> 18649

gcttatgttg caaacattta taatagacct cctcaccagc aaaaccaaca acaacagaat 60
 aattatgacc tttaagcaa taatataaat taatattgaa ggaatcctcc aaatcttjaga 120
 tggacaagtc ctccacaaca acaacaacag cctgtccctc ctcttcagaa tgcctgctgt 180
 ccaagcaagc catatattcc tctccaatg cagcaacaac agtagtagtc acaacaaaaa 240
 gcaacaagca actgagggtc ctctcaacc ttccttagaa gaattagtga ggcaaatgac 300
 tgaaattctg atactgagga cagatgtcgt acaggatgtc acgacatgc gcttcagaac 360
 atgcagaatg tatatgacag tatgaacaga ttaaacaagt aaataacaca agagaattgt 420
 aacccagttc ggtgaacgtc cctacatctg 450

<210> 18650
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18650

gcttaatggc ttctcgacat anactattaa aacgtacagt gagaattttt atgtcaattg 60
 tatctgttat nttttcatca gttccaatat cagattttgc attccttgtc catcgtttca 120
 aaatgtagtg cgatggaagg gtaagaacat ttgtaacagt gaagacagtc aatatatgtc 180
 aacaaagaac gcctgagtat tcaaacatct ggcagctgca attcaccttc atttcagaga 240
 tatttaatgt gaccatgtat gccttgtgat catgtacata ttttgcaacc ctgtatttac 300
 tgatcacacc atcatcctca acattatttg cagtataagc aaaagtttcc accagttcct 360
 cctgagattc tgcaaaaatc ttcttagtgt acatatttgc tgcttggtgt tccattggtg 420
 atggagtctt cagtacaggt gtgttacaaa tagtctcata atct 464

<210> 18651
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 18651

agctttgaat ggangctctg gtctcttggt gaaactgcat gttttgcata gtcatttgcc 60
tcacaagttc ttcaaggga ggttgccaag gagcctcaac tgtttgctgt ttctggggct 120
gttgctgttg ttgttgctgg attggtggag gaatgtatgg tctgcttggg gcaatagcat 180
ttttaaata acattattat tactgctatt tgggatgatt cctccacccg agattatacc 240
tgttgttgga gaggtcataa ttgttctggt gtggctgatt ttgctgctga ggttgaggag 300
gtctattgta gatgtttgca gcataagctt caagctgttc aattgcttca gattgttgca 360
cagaagggca aaggtctgtg tgggtggtctg c 391

<210> 18652

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18652

tctaaactnt gtacaagaat gaagctctga taccacttgt ctctgttata ttaagaagg 60
gggggggggt gaattaagat attccaaact gtttcccta attaaaaatc tatttcactt 120
tttactcaag ttatgaattc ccaatgacaa tcttcttaaa tattaattca aatgaaacaa 180
tttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag aaaatgcaaa 240
ctcagtttta tactgattcg gccacacct tgtgcctacg tccagtcacc aagcaaccg 300
cttgagagtt ccactatctt gtaaattcct tttaacaatt ctaaacacac aaggacaatc 360
cttcctttgt gtttagagat cctttacaac aagagactca cagtctctta atcccttana 420
gaatgagaag aagaagaaga acaaatctc 449

<210> 18653

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18653

ttcttctct agcttcccaa ggaagctacc ttcttgctt ctcatgaag attcccatgt 60
gctaggctat aaatagaaac atgtgtaaca cttgtcataa ctttaatgaa tgagaaacac 120

gtgagacaca cttcaaagtt caacttctct ccctaattctc cttcaattcc catccccctc 180
tctctctctc attctcttcc tccattgaag cttcctttct aagcttctta tccaaggcat 240
tctcttggtg gtgaatgatg caatcctacc cccccaaggg cattgtatag aggactccaa 300
gaagattgag ctagagatac aagagaaggc cataaggttc tcatgagcct tanggtagac 360
ttcgggccca tgggctacgt atgagtccac ttatctttat acataattaga ttaaogtttc 420
atta 424

<210> 18654
<211> 302
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18654

tcttatccaa ggctcatctc ggtggtgaag ctcttcttc catgtcttat tccatagtgg 60
atggcgccn ctctcacctc ttctnctttg tcttccactg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccaacctc catagaagcc ccacaagcaa 180
acttccatca tattctctca cccgggattg tatctattgc tggagaggtc ataattgttc 240
tggtggtgga ttttgctgct gagtttgagg aggtctattg tagatgtttg cagcataagc 300
tt 302

<210> 18655
<211> 405
<212> DNA
<213> Glycine max
<400> 18655

agcttttttg aaatcttgat gccttagtca acctagtaac tcagcttgcc ataaataaaa 60
aatctgcac tgcacatctt actggtgcaa gagtctgtgg tctatgttct tttgttgatc 120
accatacaga tctctgtcct tctttgcagc aatttgaggt caatgagcaa cctgaagcct 180
atgctgcaaa catttataat agatcccctc agcagcaaaa ccaacaatag tagaataatt 240
atgatctttc aagcaacaga tacaatctat gttggaggaa tcatccaaat ctgagatggg 300
caaatcctcc acagcaacaa cagcctgtcc ctcccttcca gaatactact ggtccaagca 360
ggccatatgt tctctctcca atgcagcagc aacaacaaag acaac 405

<210> 18656
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18656

gctgctttnt gcaattctaa gacactagag agcttncaag tatatgactt gtcccacgtt 60
 gatcttttct atctaatatg catcctgcaa aatcagaata tgaaaaacct gtcattgttta 120
 aggaagtacc tttaggatac cacataagca aacacttacc atgatatcca atctacttgc 180
 aattaagcaa agaagtgatt caatcatacc tttgtatctt gaatgatgca ctaatttacc 240
 tttctcatca aaggcaaggt atgttgatgt agacatanga gcatatgctt ctttgcattt 300
 cttcatacca aatttcttta tcggnnttat gcaatatctg gtttgactga agaaagttcc 360
 atgtttcaat cgttgactc tgagtcctat aaagaaatct aattctccca tcatagactt 420
 ctcaaagtct ttcagcatac aacatgacca ttccttgca 459

<210> 18657
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 18657

agctttatga caagtctata cgtggtatct tccttgggta tagcaatatc tctaagggtt 60
 atcgtgtcta caacttgcaa actaagaaac tcgtcatcag tagagatggt gaagttgatg 120
 agtacgcttc ttggaattgg gatgaagaaa aagtggagaa gaacgttctt ataccgctc 180
 aactacctca agaagaagct gaggaagaag acccaggtga accaccttca cctccaccac 240
 aacaacaaga tcaagaacta tcataccag agtctactcc aagacgaggt atcttccttt 300
 ggtggacata tatgaaacct gtaacttggc catacttgaa cttggaagct ttgaggaagc 360
 gtcaaagtag gaagtatggg tcaaggcaat ggaagaagag atacaaatg 409

<210> 18658
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18658

agcttttttag tcttatctga tgaagatgaa ttcgtggcta cttcatgcac tcctttaatg 60
acaatagcat cacttctggc actaaattac tggtagtttg aagccatctt ctcaattaaa 120
tttctggcctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tcttactgag tcttccatca aaatatggg gaagaggctg ttcagaaatc 240
tggcggtgag gacaactggc acataagttc ttaaatatct cccagtattc atataagctc 300
tctccactga gtngcctaatt tcttgaaata tcatttttga t 341

<210> 18659
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18659

tagctacaca tacctctcta atagctaagc tcctctncgt gagattagaa gctagagctt 60
agctacacac cccctataat agctaagctc acccccatga gaaaaaacat ganaataaca 120
aaaaaagtcc ttattacaaa gacaactcag aatgccccga aatacaaggc taaaacccta 180
tactactaga atggccaaaa tacacggcct agacgaagga naaacctatt ctaatattta 240
caaagataag cgggctcata cttagcccat gggctcgaaa tctaccctaa ggctcatgag 300
aaccctaggg cctttccttg gatctctagc ccaatctact tggagtcttc tagccaatgc 360
ccttgcgggg taggattgca tcacgagttg cttcaaggat ttccttggtc ttgtctttgg 420
atgcctgttc caagtctatg 440

<210> 18660
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18660

tgaggatggt gtngcggaga tgcgggatca atatacggat aaagttatgc nctcttttta 60
ctataagngc atggcatatt tatgttgcta accaattatg tgacagactg gtatttgaac 120
ctctgtaat tctctgaatg gatgggtatc acctgtacat gggttcatat ggttcactga 180

tgaaatggat tcattcaact ctacttaatt taaaataaat aaatagaact cattgataaa 240
 cattgttata taataatatt ntatcactca aagaagataa tcaattctca tcataatcat 300
 ttttatcaaa aataatataa tcctctgaat taattatcac aatacgatag attttgaaaa 360
 acatcataat aatgaataac ctctatttta aaagacaata taatatatag tgatctcaaa 420
 acacaaattt tctctttcag t 441

<210> 18661
 <211> 462
 <212> DNA
 <213> Glycine max
 <400> 18661

gcttgaaggt gtgtagccca ccctcttttc atagtagaat actggtaatg tgtctactat 60
 tattgttatt attgttttct ccgtcattga ggtgccactt gagctgccaa gtctctccac 120
 ctttgggcgt attcttttga aagattcgtg cccccctttt gcacatgttc tgtagtgtga 180
 tcctatctga agacattata ctgacactgc ctaacgaagg caaccactag gtccttccaa 240
 gaatggactc gggaagggtc caagttagtg taccaggtaa cagctacccc agtaagactt 300
 tcttgaagg aatgtataag caattcctca tcttttgcgt atgcctccat cttctgataa 360
 tacatcttta gatggttctt ggggcaagta gtccacttgt acttgtcaaa gtccagcacc 420
 ttgaatttgg gaggggtgat gatattgggt actacgaaca ac 462

<210> 18662
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 18662

agcttctgta ttcttttctg attttctcga tatattacgg gactcaatca gacatccgag 60
 taaaaagtta ttgtcgtttg aatttgcctca gagcttcgat aatcaattcc gagcatctcg 120
 atatattacg ggactcagtc agacaaccga gtgaaaagtt attgtcgttt gaatttgctc 180
 agagcttggg tattcaattt ccagcgtctc gacatattac ggtactcaat cagacatctg 240
 agtaaaaact taatgtcggt ttagttttct tagagcttcg gtatttaatt tcgagcctct 300
 cgatatatta taggactcca tcagacattt gagtaaaaaa gttattgtca tttgaatttg 360

ctcagagctt caacattaaa tttcgagtgt tccgatata

399

<210> 18663

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18663

ntgagcaaat tcgaacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60

atctagacgc tcgaactgga ataccgaagc tctgagataa ttcaaacgac aataactttt 120

tactctgatg tctgattcag tcccgtataa tatcgaaacg ctcgatattg aatgttgaag 180

ctctgagcaa cttcaaacta cagtaacttt ttactcggat gtctgattca gtcccgtaat 240

atatcgaaac gctcgatatt gaatgttgaa gctctgagca aattcaaacg acaataactt 300

tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgaaact ggaataccga 360

agctctgagc aaattcaaac gacaataact ctttactctg atgtctgatt cagctccgta 420

atatatcgaa acgctcgata 440

<210> 18664

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18664

tcagacgata cgcaaccttg cccatcctct ccataccgc gaatgttcca tagtacctct 60

ttgccaaactt tgagtatgat gtctcaaaag ctgaggtttg acgatgaggt cgaagtttga 120

ccaacaccca gtccccgatg ttaaactctt gaggtcgtct ttgtgcgtct gctgtctact 180

tcatcttctg ctgtgccctg agcagtttcc gactgagcag cttcaaaacc tcgtcgcgtt 240

ggttgagcac ctcatccacc gtgttgatag acgatgtccc ccccaaatat tccggaatag 300

caggtgggtt cgcaccgtag atgatcttga acgngtgat ccttgtgcct gaggggcatg 360

aagagttgta tgaccactca acccataaca ggaattgccc ccacg 405

<210> 18665

<211> 410

<212> DNA
 <213> Glycine max
 <400> 18665

gcatgtgcac gctttcaagc tattatcgaa gttcaacatt aaatttagaa gtgtttacat 60
 tattatttaa ccaagtttaa attgagtttc tattagtttt aacacatata ctgacttaat 120
 cagcttttca tttatttatg tatttatttc gctaaactaga ccttctctta taatgatttc 180
 tttttctgaa taatacattt cgtatttttt ttacccactc 240
 attaaatattg agaattctcat tattctatat 300
 gtatctgtgg agtcttattt ctaaaacggg ggaattaatt cacataaatt tcaagagagt 360
 tggtacatta aattt gttgtggg gtgatttggc tcgatattta 410

18666
 403
 <212> DNA
 <213> Glycine max

agcattctta ttcatttttc aagttacaag tgaactcccc aagaagtgac atggcccact 60
 tgtgggtttc caatctagct tacattctgc aaagttagaa tatgaaaatc caattaaact 120
 caaggaggta cctttggggg accttaaacc aacattgggt gtgcccttaa ggtacttaat 180
 aatccttttg acaacattta aatgggtattc cttgggattt ttttatatc tttcacatat 240
 gcacacactt agcatgatgt caagttgggt tgtagtcaaa tataggagat aaccaatcat 300
 acctctatac ttgactcat ctaccgattt acctttttca tccaagtcaa gataaatgga 360
 tgttgccatt ggtattgttt cttccttaca ctnttcata ttg 403

<210> 18667
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18667

cgctttaac gataaaaata acacaaattg atcttaaaat tatattttat ctttaaataa 60
 aacgattttc aattctatca aattagtcca atagaaatat attaatattt aagtctaata 120

aaaaattatt gacattttca tccaataata ataatttatt aacatttttt gtccaataga 180
 acttactcat atctaagtca aaacaatgag tgacatttcc ctgaataag aaatatattg 240
 acattttcgt ttaacaaaaa ttattgatat ttacgtccaa aatgatatac ttattgatan 300
 ttttgtccaa ttttaattagc atgatcacat tgacaatcat ttgaatgata aatctatcct 360
 tttgtgtcat gtagaactat ttattaatca caacgaacaa tagttaacga cogactanta 420
 ttatcacact tcttatat 438

<210> 18668

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18668

tgagcacctc ttccttcatt gatgggttga gccttctcta gggctgtttg acangtctat 60
 attcttcctc cattattatc ttgtgcatat agtaggcagg ctgattcctt ttagatctaa 120
 tatgtgccac ccaattgcct ccttctgtct cttgaggaac tctatcaacc tatttcttct 180
 tctgttgtaa gcttactatt gatcaccaca ggcttgggtc tgttctcttc caagaacata 240
 cttcaggtgg ttaggtaaga tctttagctc caccttggtc ttctcaggtg gacttcogct 300
 tttcaattct tcaaaactgg tccccctgc aggcataatt tcttcacaat ctaagccttc 360
 caagcaagcc cataaattct tcttctcttc actgggttaga caatctacaa cattgggtcaa 420
 agctttctcc agtaaagttt atg 443

<210> 18669

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18669

tatacggcct angatgtggt tttgtgacta aattcaattt agacacaagt cttgcacttg 60
 ccacattgct acaactcctt ccatcattga tcatcatgca aactttgcc a ttgatcaaac 120
 atctagtgtg gaaaatgttt tctctttgac tttcttccat agacttcaat tgatggccaa 180
 gtaatcatca acaattctcc ctctgggtgtt ttctccactt cctcctctc atcctcactc 240

tcttctccct tttcaacttt ggactcacta atgtactctc cgtctctaag aatcatggat 300
 ttcttgatag ggcaactcata tgcataatgt cccaagccgt ggcaccgaaa gcacttgaca 360
 tcccgaacant tttnttagga ttgttcttgg acatttggag gagttnttga tggatatngt 420
 gttgcattag aggtggcaac ccc 443

<210> 18670
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18670

agcttttggc aagtgtagca acatagtata cggaaangat gctctagctg tggatagagc 60
 acggcacact gctggagaaa tcgctataag agatcacggg ccaattttta ttgaggtgca 120
 atcagctccc ttcattgcgta agacgatcat tgcttgatgc cacatcattt taatgttcac 180
 cgagctgatg ctaatgggta tataaccttc aggtcttcac tcatgcagtc ggacatcaact 240
 ctacatctga tgagtaaact aagtaccggg gaactgatga gatcgaatat tggaaatagg 300
 caaggaatcc agtgaatacg gccaaaagac gggtagaaag gaatggttcg gggagtgaca 360
 aggatgaa 368

<210> 18671
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 18671

cctcattgca gtcatttcac acaacataac ccacatgaca taagattaag acatgggtgtg 60
 aaggaactta ccgtacgttt gagcaatcct ataatttctt gatcttgcca aagccttatg 120
 tcaacaatat tagcaagcaa atcaaccttc atcaaaatgt gggattgttc attgggatgc 180
 tgacttggct tcctcttaat ttcttcttcc ttacgattg agaggataat aatcttagac 240
 attacacaat aataatatat agatcaatta aaataagcat catatctatt tcacacttct 300
 taatattaca cctataaagt cacatcaacg tcttcattac ctgtgtcga cttttcattg 360
 aacctttcct ctaatatata caccgacacc tct 393

<210> 18672
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18672

tatggcccca tcaaaacact tgcctcccca gggaaattct ataaatagat ctctcatctn 60
 taatggagtg ggttaccact actggaaaac ccgcatgcaa atctttatag aggcaataga 120
 tttaaatatt tgggaagcca tagaacaagg accttatgtt cctctataa tagccggaag 180
 tgcaacaata gaaaaaccta gagncaaag gactgaggaa gaaagaagat tagtacaata 240
 taatttaaag gccaaaaata ttattacatc tgccttaggt atagatgaat accttatggt 300
 ttcaaattgt aaaagtgcct aggatatgtg ggatacacta caagtaacac atgaaggcac 360
 aacagatgtt aaaagatcta ggataaacac tntaacgct gagtatgaac tntntangat 420
 gaatgtaaag gaaagtatac aagacatgca a 451

<210> 18673
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18673

agctttggtc tagtctttct aaagcaaagg ttgtttcatt ttgtgtgtat caagattact 60
 atccattcaa tatataatca cttcttgatt aggggtttct ttctaaatga aggttacacg 120
 gtaaaggaaa agtattgaat tataactccc gaaaaaataa taatacaata cttctgacct 180
 ttaattttta cacattcata attattagat ttttagaaca gttatttcaa aagtcaataa 240
 tcatttatcc ttttggata tttagattaa aaagaaaagg tattataaag attntacaca 300
 atcattaatc actatatgat aatttcaaag acttttaaaa tatttatctt anaataagtt 360
 aaaggatgat ttgtgattag atgataatat aatcag 396

<210> 18674
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18674

tgagcacctc ttccttcatt gatgggttga gccttctcta gggctgtctg acaggtctat 60
 attcttcctc cattattatc ttgtgcatat agtangcagg ctgattcctt ttagatctaa 120
 tatgtgccac ccaattgcct ccttctgtct cttgaggaac tctatcaacc tttttcttct 180
 tctgttgtaa gcttactatt gatcaccaca ggtttggctt tgttctcttc caagaacata 240
 cttcaggtgg ttaggtaaga tctttagctc caccttggtc ttctcaggtg gacttccgct 300
 nttcaattct tcaaaactgg tccccctgc aggcataatt tttcacaat ctaagccttc 360
 caagcaagcc cataaattct ttttctcttc actgggttaga caatctacaa cattgggtcaa 420
 agcttt 426

<210> 18675
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 18675
 gtttaagtga aaggatatga ctcttcacat ttgtttttga atttctttat tcaacggcac 60
 tagtaattga ttacaaaaac attgtaatcg actatagctt tttgaaaata attggaacgt 120
 tgtaaattca gtttgaaaac tttttcaaac tcattttgct actggtaatc gattacaaca 180
 atatggtaat cgattaccag agagtaaaaa ctctttggta aaaggttatg tcaaaaattc 240
 atgtgctatg caaagtgtta gtgcttggct ctactgagtt ttaaaagaat ggctaaaatt 300
 ctgttaaaac ataagcactt agacaatgaa tgaaagctgg agttgctgca catgatgtct 360
 aacattatgt caaggaatca gatcgggctg cacaatgcac aatgcacgat ataatgtcat 420
 atgaagaatt gaagctgcaa gatccacgat gtc 453

<210> 18676
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18676

tataaaactc agctttaatt ngttgtttgt cttgatagta tttaaattac tttttactag 60

atgagttcaa taatcaaagt tgataaaatt gctgagcata actataaatg ttattcaatc 120
tattcatgtta tcacttttag taaataatta ttctttatct tattatcata tttattatct 180
tattaaatcg ttaattcgac aagtctttga ttaaattata ggcttggtat catgaagaga 240
ttatgataat gagaaaaagt tatttataat ttcattctaa attggtcttg attgtaagat 300
tattgltgat atcatalcaa taatcccgat aacttaactt alactlaaly olctttatly 360
gataaagatc aatagatcta atttattaaa ttgcataaa cgattatgta catgtggaag 420
ttataattaa agcgacttaa ttgagaattc ctaat 455

<210> 18677
<211> 392
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18677

agcttctaca tcagtatcct tctattgtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttggt gatgatttct 120
ccagatttac ctgngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga gtttgaaaac agcaagttaa ctgaattctg cacatctgaa ggcatactc 300
atgagttctc tacagccatt acaccacaac aaaatggcat agttgaaagg aaaaacagga 360
ctttgcaaga agctgctang gtcatgcttc at 392

<210> 18678
<211> 364
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18678

agctttgtca ctgggtattca tgtttcatct aggcctttta agtatatgca ttttgattta 60
tggggaccat ctagagtga aactcatggt ggaagctcat actttctcac catcatagat 120
gatttctcaa gaagagtatg gccgtatgtc ttgaaaatac aatcagaatc tttttccaaa 180
ttcagagagt ggcatactct tattgaaaat caacttggtg caaaattaaa agttntaagg 240

attgacaatg gcctggagtt ngtttcagag caattcaatg agttntgcag gaaagtatgt 300
 atcataaggc acaaaacagt ccctcacaca ccacagcaga atggattagc ataaagaatg 360
 aata 364

<210> 18679
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18679

ctcaagtaca ataaagaagc ctanatggac tngaaggtct tgccaacca cttgaagtgt 60
 gtgttcttga aagagaacaa tgcaaaacct gtggtgattt gcaatgattt atcttctaata 120
 gaagagtcta ggtgggtcga agtgcacaaa aagcacaagg cagtcattgg gtggcacatt 180
 ttggacctca aggggaattag cctttcttat tgcattgcata aaattatgat ggaagctgac 240
 tataagtctg tgagacaacc acaaagaagg cataatcctt cgaagaaaa agaggtgcac 300
 aaggaagtcc ttaaactcct agaagtaggg cttacctatc ctatcttaga cagtgcctgg 360
 gtgagttcag tgcaagtggc tccaagaag ggtgggatga ctntggtgag aaatgagaaa 420
 aatgacctca ttccaatccg aactgtcatg ggatggagaa tgtgcataga atatcgg 477

<210> 18680
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 18680

agcttgtgca ttcaatatcc tgatgatggc gttccatagc ttctcaagac tggactaata 60
 catttgcagc ccaagtttca tggctcttga ggtgaagatc cttataagca tcttaaggag 120
 ttccatattg tttgtttcac catgaagccc cctgatattc aagaagatca tatctttcta 180
 aaggcttttc ctcatctctt ggaaggagtg gcaaaagatt ggctatacta ccttgctccc 240
 aggtctattt tcagttggga tgaccttaag aggggtgttct tggagaaatt cttccctgca 300
 tataggacca ctgccatcag aaaagacatt tcaggcatca ggcaacttgg tggagaaaga 360
 ttgtatgagt attgggaaag attcaagaaa ttgtgtgcaa gct 403

<210> 18681
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18681

taaggacacgt gaacgcgtgca aaglaaaagt gaacgtatgt gaacgtatgt tglataaatt 60
 ataatttata acctatctta tgatttaaca tgetaaaaca ttataactat atatacgcac 120
 ggaactatat atctctaaca atttaatat tgtgcagtta aaaaaattaa tatatatggt 180
 aaaataattc catgaatcga actaatctaa atctttgata tattaggaac taatcatttt 240
 aggtctcttc aattttcttc ttattttttc actactacaa aatatagact taacatcgca 300
 tgattaacat cggtttttca aaaaatcgat gttaaaaaaa gcacagtaac atttttgtaa 360
 ataagttgag ttgggttaaca ttggttnttt aaaaaccgat gttaaca 407

<210> 18682
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 18682

agctttatga ggacagtgcg atgcagcagg tgtttttgat gaacaatctt tattacctag 60
 tgcggaaagt gaaggactcg gacctaggga aggtcttggg ggataattgg attacgaaac 120
 gccgtgggtca gatacgccag tatgctacag ggtatctcag agcctcttgg agcagggcct 180
 tatcttgttt gaaggatgaa gggattggag ggagctccaa taatgcatca aagatggctt 240
 tgaaggagag gttcaagagt ttcaatgctt gttttgaaga aatttacagg gttcagacag 300
 cttggaaggt accggatgac cagcttcggg aggagctgcg gatattctata tcagaaaagg 360
 tgattcctgc ataccgctcg tttgtgggaa gattt 395

<210> 18683
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 18683

actaagctta tcatcgttgc ttccacattg aaacggttgt gctggcctat gtttttacta 60

tagtagacgt acatgtgtga tattataaag atggaaagcc tacactaccc ttctaaatct 120
 accccaaagt aactttttta taaaaatatt cattctttat tgtaatatta ttttttaatt 180
 aatagtatta caaatagttg cattgtttca ttgaacatga tatacgtcct ggacgaggat 240
 aaatgcaatg catatatgaa tttaacctac acttattttt aagttgtcaa tcaaaaatcc 300
 ctctttatat agctttttaga atatttatta tttcccatca aaatctctca ttattttaa 360
 taaaaaacta atatctatca taatttarga ttttaataac ataataaaat atacttgcac 420
 tatatataca tactattttc tattactctt t 451

<210> 18684
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 18684
 agcttttcag ctatttggtt actctcccta agagaatgga gccaaacaaa gcttccttgt 60
 tgttcctcaa aagccttgaa atttcaaaac atgctttaag acaggtgaaa tgaagggcag 120
 ccatgattca gaagtgaat agccacaaag gaatcagatt ccaacatgaa ttgcttgaat 180
 cttctactcc gtgcaatttc aattccaagc atgatagcct cgagttctgc agttacaact 240
 aaacaatagc atacatcaat aacaaaagag aagttcgctt tgccattata atccttgaga 300
 actccacca caatggcctt cttcgtgtct ctattgattg aaccattaat attgagtttg 360
 aactagccat ttgaaggctt gctccaacta atgctttt 398

<210> 18685
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 18685
 ttgatagtga ggaatcaatg ggtccagata ggttgcatga tgacatactc agaacttcaa 60
 gtttgtgcaa tgaagatatg gcttggcacc actcgtttcc aattgcagat accttgacac 120
 catctagata caattctgcc agttttgtga ggttttgcaa gagtgtacct atatttggct 180
 tctcaagttt tagagtatgt tgcgaggtaa atgatgtaga caagtcaaga gtagatagct 240
 tggttagatg agcaatctca attggaattt gcccttgaaa cccagcattt gacaagttca 300

aatacctcaa attcttttagc aagccaaact ttgaaggaat catcgaagaa tggatgtcat 360
 tgtgtgccaa attcaaactt tgcaaatatt gtaggttgaa gagacttgaa ttgtccaagc 420
 cttcactgat aaattcttca ctcaagt 447

<210> 18686
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18686

tccccgcctt caaggtcgca tctctattcc tagacttggn ttgcttacac cacagcttcc 60
 ctccaagcat cattttctgat agagatcctg tgttcttaag ctctttctag cgagagcttt 120
 tttgactcag tggcaccat ttacgtatga gcacgatgta tcaccacag accaacggcc 180
 agatcgaagt gatggaccat gtgttagaac aatacctacg ttcatttggt cattcccaac 240
 cggcaagttg gttccgttac ctagccttag cagaatagtc gtataatact tccctttatt 300
 ccagttcagg ctntactcgg ttcgaggcaa tatacggcaa gccaccacca gtgttgcccc 360
 attatcttcc tggaatgacc aacaacgagg cggttgaatc actggttaaag ctctgataga 420
 agatccatgc aaagcttcaa tg 442

<210> 18687
 <211> 386
 <212> DNA
 <213> Glycine max
 <400> 18687

agcttttatgc catgetacaa tggttctccc tgacatctcc gcggcagctc cgaggatttc 60
 ttggtctaatt tggattctat cgacaatttg tccagaatta tgccacatc gcagagccac 120
 tcactcgcct attgcgaaaa gaacaatttg agtgggtctcc cgaggcacia ttagccttcg 180
 acgatttgaa aatagccatg acaaccactc ctgtcctctc cctcccagac ttcacgattc 240
 cctttgtagt ggaaaccgat gcctcaggga caggcatggg tgtcattttg atgcagcgca 300
 gccatccaat tgccacttcc agtaagcaat tctatcccaa attgcttcgt tcttctacat 360
 acatctgcga gttgcacgcc ataacc 386

<210> 18688
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18688

taaggtaacc tttgggtcct ccacccctcat tctcaggtta tcaattccca tctcccaaac 60
 acattttgcg gtaagcatga atggctcggtcccaatataag ggaatatcag aatccctcgtc 120
 tatgtccatt atcacaaaat ccacgcgaaa ggtgaattgg cgaaccttaa ccaagacatc 180
 ttcaactaca ccatatgggc atgtaatgga ggggtctact agttgaagag tcattatagt 240
 gggagctatc ctggggttct caattctccg acacatagaa agaggcataa aattgatgct 300
 cgccaccaga tcaatgagag ctttaccac tgacacagtc ccaataaagc atgggatgat 360
 cacacttcct gngtctttga acttctgtgg tagaattcta tggatcacia aactacaatt 420
 tcttttcacc ataatgctct cattg 445

<210> 18689
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18689

tgtcagaact tgttntaaca naaacaaga aatttcttga tcaacttagt agcctcatac 60
 ttattttttca ttaaataataa ccattgtaaac ctagaactat catcaacaat agtcaaaaag 120
 taatgttttc catcatgagt agcatgttga tatgggcccc acgtgtctac atgtatgaga 180
 tcaaatgggg actcaaaata atggttattt gaaataaaag agagccttct anatatggac 240
 aggggggcaga tcatgcaatc tttagaacta tgagatgtca aatgcaatga atttttattt 300
 gcaaaaagtt tcaaatctt gtcagatata tgtcccaa at gggaatgcc aagagattgt 360
 tcactaagaa cattacaact tgtaactaca ttattancaa ttgaagaatg tgaattcaca 420
 a 421

<210> 18690
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18690

tcaagtatac aactaatact aacattgcc a tgagaacaac tattgatgat tcatgggttat 60
ggcattgaag atttgggtcac ttcaacactc aagctttgat gttgctgcct caaaataata 120
tctatctatc tctatctatc tctatctatc tctatctatc tctatctatc 180
gctatctatc tctatctatc tctatctatc tctatctatc tctatctatc 240
gttaatccac actaacattt gtggaccaat gaggacatcg tcaactaaaca acaacatcta 300
tttcatectc tttattgatg acttttctag aatgaacttg tctacttctt tatagaanaa 360
tcaaaggctc ctggaatggt caagaatttc aaagctcttg ttgagaaaca aagcacgaaa 420
cattatctat tctatctatc tctatctatc tctatctatc tctatctatc 480

485

<210>

<2

<

<213> Glycine max

<223> unsure at all n locations
<400> 18691

attnttatat atacacgcgc gaaatggggt ggacgtgcga tgaggctggt aacatgaatc 60
tataggccac tgggccaatg cgcgccgcta tctgaaaggg tccataaaac cgcttggtta 120
gctaggaata tgtcggagcc agcgacgtct gccggtatgg tcggaagcgg acgtgtaccc 180
atacaccac ctcataagat atatcgcggc ggtgtttatc ggcagcaacc ttcattgagtt 240
cctgcgctcg ttgaaggcgg cgcgtcaatt gcgcgtgtac ttgcagacgc gtggtgagta 300
gcgagtcaac ggcattcttc gacgattgac cttggagata g 341

<210> 18692

<211> 302

<212> DNA

<213> Glycine max

<400> 18692

ctggaactac ttattttgtt ttcattggcg cttatgcaggg tgaaagcctt ggaggaaaga 60
ggtctgccta tggtgtgtgt gatgatttct ccacatttac ctgcgtctac tctatctgag 120

agaaaccaga atcctttgat gtattcaaag agctgagtct cagacttcaa acacaacagg 180
 actgtgtcat caagagaatc aggagtgacc atggcagata gttctaacac agcaggttca 240
 ctgaattctg cacatctgat ggcattcactc atgacttctc tgctgccatt acaccacaac 300
 ag 302

<210> 18693
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18693

ttattcctttc attcaattct gagcgtctcg atatatgacg agactcaatc agacatccga 60
 gtaaaaagtt attgtcgttt taattggctc agaggttcaa cattaaattt cgagcgtctc 120
 gctatattac gggactcaat caaacatccg agtaaaaagt tattgtcggt tgaattggct 180
 caaggcttca acattcaatt ttgagcgtct cgatatatga cgagactcaa tcagacatcc 240
 gagtaaaaag ttattgtcgt ttgcatttgc tcagagggtc aacattgaat ttcgagcgtc 300
 tcgatatatt acgggactca atcagacatc cgagtaaaaa g 341

<210> 18694
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18694

ttgagccaat tcaaacgaca ataactttta ctttttgtgt gatgagnctc gaaatataac 60
 gagacgctcg aaatagaatg ttgaagctct tagccaattc aaacgtcaat aagtatttac 120
 tcggatatct gattgtgtcc cgtcatatat cgagacactc gaaattgaat gttgaagctc 180
 tgagccaatt cagatgacaa taacttttta ctggatgtc tgattgagaa ccgtaatata 240
 tcgagacgct cgaaattgaa tgttgaacct ctgagccaat tcaatcgaca ataactattc 300
 actcggatgt ctgattgaga cccgtaatat atcgagacct tcgaaattga atgttgaagc 360
 tctgagccaa ttcaaacgac cataaatgta tactcggatg tctgattgag tcccagtata 420
 tatcgagacg ctcgatatag aatgttgaat c 451

<210> 18695
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18695

tctcttttttc taaattaacga gcgtctcgat atattacggg actcaatcda aactccaaat 60
 tgaaagtatt tgtcatttta ctctttatag agctttcggt ntcaatttcg agcgtctcca 120
 tatattaaag ggctcaattg gacatccgag tgaaaagtta ttgtcgtttg aattttctca 180
 gagcttctgt ttctgattac gagcgtctcc atttattacg ggactcaatc ggacatccga 240
 gtcaaaagtt atagtcgatt aaatttgac agagctttag ttttcaatta cgagcgtctc 300
 gatataattac gggatacaat cggacatccg agttaaatga tattgtcgtt tgacttttct 360
 tagagcttcc gttttcaatt tgagcgtctc gatataattac aaggtctgat cagaca 416

<210> 18696
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18696

ntgagcacat tcaaacaaca ataacttttg aatcgaaggt cngatttgtt ctcataggat 60
 atcgagacgc tcgtaattga aaacagaagt tcttagaaaa atcaaatgac aataagtttt 120
 aactcggatg tcctattgag ccctgtaata tatcgagacg cacgaaattg aaaacggaag 180
 ctctaagaaa agtcaaacga caataacttt taactcggat gtccgattga gtgccgtaat 240
 atatcgagac gctcgtaatt gaaaactgat gctctgagca aattcaaattg acaataactt 300
 ttaactcgga tgtccgattg agtcccgtaa tatatcgaga cgctcgtaat tgaaaacaga 360
 agctctgagc aaattcaaatt gacaataaca tttcactcgg atgtccaatt gtgtccaga 420
 ggatatcga 429

<210> 18697
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18697

agcgttttatt ttnttggaat caaataaaac accaagatag tctcatattg taaaattgcc 60
 aaatcgtgtc tcaatagaat taattgattg atctaatatg tataaaaaat actcgatacg 120
 aaaaatttct tcaatggaat tctcatattg tctcatattg tctcatattg tctcatattg 180
 tctcatattg tctcatattg tctcatattg tctcatattg tctcatattg tctcatattg 240
 tctcatattg tctcatattg tctcatattg tctcatattg tctcatattg tctcatattg 300
 aagacctttt aaatgatcta tggcaaatat tatatgcata ncctttgatt gtagaatttt 360
 gctaatagaa ttgacagcaa acaaaatata ataccanata ttcattccta ataacaattc 420
 acaatcttca agttca 436

<210>

<213> Glycine max

<223> unsure at all n locations
 <400>

ttttatcaaa tattgtctat atcacatgtc ctgctaaagc atttagtgat atgaactata 60
 tacaatattt gataaaatat atattacaaa aacatattaa taacaattat tcatatttga 120
 tgatattttt taaatgttgt caaaaactat tcacaatatt tttactaaaa tgtgacggtg 180
 tatataaatg ggtagtaaat agtaatcctt ggtcattccc tagtattagt acaactattc 240
 atgtatatctt acaaatgtac gtagatattt attaaaaatat ttttttctaa gaagtaaaac 300
 ataaaaataaa aattgaaata tatatgtata caaaacataa attagaatta ctctatatat 360
 gataaagaac gtntaaataa tgtcacatta cacgtaccta catgtatgag tacctcatta 420
 tatatccatc att 493

<210> 18699

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18699

agctattgtt acgattcact gngacagtca aagtgtcatt cacttaacaa atcaccaaatt 60
gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120
atctgagaag gtgaagggtg agaaggtttc acagaagaaa acctggctga tatgtttaca 180
aaatccctct ctagtgtcaa qttcaagcac tgcctgact tgatcaattt tgaagatgcc 240
taaagcagat ngatagaagt gcagccttga atcacaatgt agacacttgc ttgattggag 300
tcaagggtga gatttgtggt gtgtgactca naatcacaat tggcacaagt gagaaggctt 360
tanagtgggtg ctgtcataac tgttntcagt tattataacn tgaattagtt tggcaccaaa 420
gtat 424

<210> 18700

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18700

ttcacgagag cttccgttgt tcaatttcga gtgtcactat atgtgatgag cctaaattgg 60
acattcgagt taaatgttat gaccatttga gattctcaag aacttccgtt gttcaattct 120
gagcgtctcg ttatgtgatt tgcctgaatc ggacatccgt gtgaaaagtt atgaccattt 180
gaatttctca agagcttccg ttgttcaatt tcgagcctat cgacatatta tgcgcctgaa 240
tcagacatcc gtgtganaag ttataaccat ttgaatttca tgagaagctt cgttgttcaa 300
tttcgagcat ctctacatat tatgcgcccg aatctgaca 339

<210> 18701

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18701

ttttttgata tggagatcaa attgaccttg aagctatgta tatatacaac atcctctaag 60
tatagaaact gagaaaattg cactgtgcct acatgagttg caatgactgt gtggccaatg 120
ggaagcttaa aattatggga tttatcttct tacaagaaga aaataagtaa ggaaaagtta 180

tgacatgatc agtggcttct gaattgagta tccattcatc tggacctgtc ttgcttacac 240
 tacaagtaat ggataagaca ttacctctgt gtgcattgct ggaaccaatg attgtactaa 300
 tttgattcac atgntgaatt gtgtgactcg agctctattg ctacagcang gccattagag 360
 ccttatattg ttgagaagtc aactntatta tagtactttg ctcatcttga ttgttggtaa 420
 ctcatcttga ag 432

<210> 18702
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18702

atcttgtttg gntctacttc tctgatcatc tggtaataaa gccaatgttg aaaatttctt 60
 gggactcact atctcaagtt tctcagtaat ttcttgaat gctggaacaa ggccacgcct 120
 tatgaagcac cttctataa gccgcacga atttaactcg gggagactag gagcatcttt 180
 taactccaga tccaagcaaa atggggagtc ttttagccac atcctgagag agtgagcctt 240
 ggccacaagg atgccttgct gtgtcttaca aggaagaaaa ggcgatccca tttcccanag 300
 gcatgccttc aatgtgctgt caagagatac catgttatac tctngctgtt cccgtataag 360
 tacaactgga tttggtgact ctggat 386

<210> 18703
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18703

agcttatggt tattgtaagg agaataaaac aatccanaat caattgtacc tttcaagtaa 60
 cgaagaattc tttttgcggc ttttagatgt ggagaggtag gagccttcgt aaagagacac 120
 acaactccca ccgcataatag aatatcgggc cttgtattgg ctagatacct taaactcccc 180
 acaagactct tgaagatcgt ggagtctacc ttctgtcctt catcaaactt tgataacttc 240
 aagccacctt ccataggtgt gttcacagga ttgcaatcaa gcatattaaa tttcttcaac 300
 acttcttttg tgtaccttc ttgtgagaca aagataccat tctccgtttg cttcacttcc 360

attcccaagt aatatgacat aagtcacata tttgtcatat canattcacg agacatggac 420
tccttgaagt cttcaaac 438

<210> 18704
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18704

gttatagggt tcatatatgt ctcaccatag atcttactcg tcttggagta gactctgggtg 60
atgatagttc ttgatcttgt tgttgtgggtg gaggtgaagg tggttcacct ggggtcttctt 120
cctcagctat ttcttgaggt agttgagcgg gtataagaac attcttttcc actttttctt 180
caccccaatt ccaagaagcg tactcatcaa cttcaacatc tcaactgatg acgagtttct 240
tagtttgcaa gttgtagaca cggtagccct tagagatatt gctataccca aggaagatac 300
ctcgtatagt cttgtcttca agtttgtgcc tcttcacgtc tggaatataa atgtagcata 360
tagatccaaa gacccttang tgctntgctg atggcttctt nccgttccaa gattcaattg 420
gagtcttgtc ttttacagac ttnagtggac atctgttgag tgtgt 465

<210> 18705
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18705

ttctttatgt ttatgaatca agttgattca agaagtttag ataatgacaa agatgtagac 60
aaaaagccca aagaatgatg tcaagattaa atcaagaaca aattcaagaa tcaagagaag 120
tttgatttca agattcaaga aaagatgaat tcaagttcca agagaagaaa tcaagaagac 180
ttcacaaggg aagtattgaa aagatttttc aaaaaacaac atagcacnag tttgtttttc 240
aaaagagttt ttctcacaag tttctaagtt accagagttt ttactctctg gtaatcgatt 300
cccagtttcc tataatcaat taccagtgac aaagtttgat ntcaaaagtt ttcaactgaa 360
tttgcaacgt tccaattgat ttcanaatgg tgtaatcgat tacaagatat tggtaatcga 420
ttacca 426

<210> 18706
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18706

gclaaacctta gttcatcgtc gtlgalccca tgggccatc ttatacittg ccacatlata 60
 tcaccttgac catttataag gccactagtc tcctatggca cctagacttc attcccttag 120
 ttttaacaac tcattagatt ctcaattcac taatacattg gacagaaatg tgtataacct 180
 tttttctttt gtaaactact ctataagggc tcacatcacc tctctattaa gcataatata 240
 ttttacaagc taattacata atatatttaa attggactca tccattcata taacataaat 300
 aaattccaat ctaagaagag gaaataaaga taaaatttat acacttagaa nataaggcat 360
 ataataaata gaaatttata acaaaactca attcatacaa gtcattctcat atacaagtac 420
 atcaacaaaa tattgtcaaa ccaagatata atagttcaat tactaaacat caccatgtga 480
 cat 483

<210> 18707
 <211> 478
 <212> NA
 <213> lycine max
 <400> 18707

tgagagagag acaccttttg gttgcaaaca atgtataata aataagtgtg acacctaaat 60
 tccaagcatg caaaggttca acatagaaat aacaaaacta acataaataa ataaaggggg 120
 ggaacagttg aatttcatga atggattaca attaccaatg gtgggggaaa gatcttcaac 180
 agaa... taaagctga caagtatgct actttttacc accccggaat ctccaatcaa 240
 caagatcttg aaagagagat catagccact gctctgacct gaggatgaac tcattctctc 300
 ttctctgat gaatgtctta cgtgtgtgtg tcaaaaagta cagtgaaga tacgtatgca 360
 agggtgagag atatatagag gcttatgggtg ttgggctacg gaaggctaac ctgtaacgaa 420
 gacaatgtgg caaccctttc attattgggtg gagagataat actgaagaga gagagata 478

<210> 18708
 <211> 416

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18708

agcttgtctt ttagtttata gtctattcta tatgcaagta tagatagcca ggccaaaact 60
gccagatc catcttctc agaatatgc tcgaacctc tccacaagca caaagcaca 120
tcacaagata aaaagtttaa aactagggtc taataaagtt gagagttgta cttcgtctct 180
cttaatgcaa tagcaaacac ataccagtc caaaactttc ttcaccacag actgaacata 240
atccagcatc cattaaatta ccaaagaact tccaaccgt ggggacctgg ttgtgaataa 300
caattaaata aaataattgc atgtctaana gccatcaaca agtagtttca tacttaaaag 360
acattgaaga gcaatatacc tcanagaatc tcanattcag atgtttggca acaaca 416

<210> 18709
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18709

agcttttatg atatgattac actatcaagt ataagccagg gtttgctaatt gttgttgccg 60
atgcgttgtc cagactcttc tcgaccgagg tctctgctt atcattaatt atgcctcatt 120
tcactntttt gcatcaactc cgtcacactt tgttacagga tcccgaatat gttgatcttc 180
tgcataccat taaattgcgc ccagatgctc actccaacct cgccattcat aaggacctta 240
ttttccgaca aggctgtatt tagattccct tcccacccc ttttactgcc ttactcttag 300
aggaatttca ttcttctcct ctccggaggtc acacaggggt atcaaaaact ctccattggt 360
tacgacaaat atttgattgg ccacatatac aganagatgt tcgtcggtac atcgcgcaat 420
gtcccacgt 429

<210> 18710
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18710

ttcttttctt tgcaactaaa tcttgcttct tttagttaat tntataaaca gtattttaca 60
 tgtatgaatt atttttogaat tataaaaaatt tataaattaa aatataaaaa aataatattt 120
 aaatattttt attattntaa tttacaggta ttttaatttta tcacaatatt ttattataat 180
 ataaattaat atattattat atataaaaan ttgttcttat tntattatga ttntaaaaaa 240
 actarataaa ctaacatata gattatntaa taaaattatt ttatgtaagt tatacgaatt 300
 aagtaaatta aaataacatt tanataatat aagaaattga aaatttatta ttttttataa 360
 ttaanataag aatttgtatt aattatatat aaaaataaat ntacatggct cttgtannat 420
 acataaaat 429

<210> 18711
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n-locations
 <400> 18711

tatgctgcan atatttaca tagacctct caatctcagt atanaaatca accacagcag 60
 aacaattatg acctctccag caacaaatac aaccttggat ggaggaatca ccctaacctc 120
 agatgggtcca gccctcagca acaacaacag cagcctgctc ctctcttcca aaatgtagct 180
 ggcccaagca gaccatacat tcttccacca atccaacaac agcaacaacc ccagaaacaa 240
 ccaacagttg aggccctctc acaaccttcc ctgaagaac ttgtgaggca gatgactatg 300
 cagaacatgc agtttcagca agagaccaga gctccattc agagcttaac caatcagatg 360
 ggacaattgg ctaccaatt gaatcaacaa cagtcccaga attctgacaa gctgctctct 420
 caagctgtcc aaaatcccaa aaatgtcagt gccatttcat tg 462

<210> 18712
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18712

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 cctagccttg caacaagtcc tagggaagta gatacgaga tggacaagaa aatctgcagt 120

attgtgagta gcattttgaa agacgcctct gtgcctgaag ctgatgaaga tgtcccaaca 180
 tcgtccaccc canatgtttc tgtgcctgat gtcaataaag atgttccaac atcttccggc 240
 ccanatgctg aagtactctc ttccccagc aaagagagat caacagagga agatgatcaa 300
 gccgcagagg agactcctac accacgggca ccagaacctg ctccaggtga cctcattgac 360
 ttac-acaad tccatccca tcaagaaccc attoranaca agttgcacc tggcatt 417

<211>

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18713

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 att ttgtat at 120
 ttttaattgtt atatgctaca ctatgattag tt gata aattaggaat 180
 agttttacat actctaagtt attaattgta tatggtagat taggaatagt ttacattggt 240
 taata gatta at 300
 accgtaactt attaattcta gattagctt agtccgc cacgttggt 360
 aataggattg aaggctcct ctacttcaaa ccttgtggag tggatgtcat acacgcgaac 420
 gatgtgcgaa caa 433

<210> 18714

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18714

catgctgngt tgtatacgca gtgtatcaca gtttttttag agactgccaa accgctcagt 60
 aactagctca acaaggacgc tgtgtacntg ctgatgaat agtgcttgaa cgcattcaac 120
 actatataga ccagcctagt gtctactacc gtcattacaa caccagattg gagccaagaa 180
 tttgagctca tgtgtgatgc aagtgattat gttgtaagcg ctgtattggg ccacaggaag 240
 ggtagagttt tccatgctat ctattatgcc aataaagatt taaatgatgc tcaattgaat 300

tatggcacca tatataagga aatgctcagc cttgtctatg ctctggagaa ctcagatcat 360
acttaggtga tcaaagttat tgttacactg ac 392

<210> 18715
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18715

ggcatgcaat gtcttttata tactnnntgt acaagaaatg gaaaagctct gatacnncac 60
ttgggttagaa aacaagtggc cctcagaata ttcttanaga aaggggnngg ttgaattana 120
gaatanntca caaacttatt cctttaatt aaaaattctt aatttgattt ntaacccaaa 180
tcctaagatt ccttttaaaa tgaattccta aataattatt caaattaaac ttactgaata 240
gaagcaataa gcaataataa ataaaagagt ttaaggggaag agaaagtgca aactcagttt 300
tatactagtt cggccacacc cttgtgcata cgtccagtcc ccatgcaacc cgcttgagag 360
ttccactcaa tcgcaaaaac cctttacaag ttctgaacca cacaaggaca acccttcctt 420
tgtgttcaga tttctttaca acaagagacc ctcggtctct taatccctt 469

<210> 18716
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18716

agctttcttg atanaattcc taaagaagct agagcttagc tacacacacc tctctaatag 60
ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcacc ccatgacaaa atacatgaaa atacaaaaaa gtccctacta caaagactac 180
tcaaaatgcc tcgaaataca aggctaaaac cctatactac tagaatggcc gaaatacaag 240
gcctaaacaa aggtaaaatc tattctaata ttacaaaga taagcaggct catacttagc 300
ccatgggctc gaaatctacc ttaaggctca tgagaaccct agggccttcc cttggatctc 360
tggcccaatc tacttgaggt cttctatcca atgccttgc gggatatgat tgtatcattc 420
ctcccttctt ctcat 436

<210> 18717
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18717

tgccncaaga tgaaggtttc ttgtggacga gggcatgctt gcatlgttcg atcatgcat 60
 tcanaacttc cgtttgtcca tctgtttgtg gatgataagc tgagctcatc cgcaatttca 120
 tgtcgctcat ctgaaacagg tcttgccaga aaattgctta tgaataatgg gtctctgtcg 180
 gagatcaagc tgcgtggcat gccatgaagc tttctgacga tgtccatgaa caggatgacg 240
 actgagtaag ctgagtgtcg agttggcagc atgcctaggt gtatgccttt tgaaaatcga 300
 tctactacaa ccaatatggc agtattttctg tgaatcggag gtaggcctgt gatgaggctc 360
 aagggaagt cctcccatgg ccgacagggc accgataatg gacataagag accggcagac 420
 ttcttagtct catacttagt gtgttggcag tcgacacagg ttgctacaaa acattntaca 480
 tcttttct 488

<210> 18718
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18718

tcactcgacc cggatcctta agtcacctgc ngcatgcagc ttattttgcc atctatggc 60
 ttaaacaatgc ncctagagcc tggtttgata aactcaaggc gcacttctga agtttgaatg 120
 taagtccagc aagtgtgatc cctctttatt tgtctactcc aaagggtcct caacaaccta 180
 tatgcttggt tatgtagatg atatcatcat aacaggggaat aatccttctt taatcaagca 240
 actcatctct aagctaaata ctttnttctt tcttaaagat cttggttctc tagactatct 300
 cttgngaatt gaggtaaaac atcaatctga tggatctatt gttctcactc aaggaaaata 360
 cattagagac ttgctggcct anactaatat gacagaagca aaacctatnt cttcacctat 420
 ggttactgga tgtaagctaa ctaanagtgg atctgatcca ctactgatc cat 473

<210> 18719

<211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18719

tcattcttat attctancat aatccaatat ccagaagact ttgataggga agttagaatc 60
 ctagggaaaag caaggcacc aaatctaatt gcattgaaag gatactattg gactcccaaa 120
 ttacagcttt tagtgaccga gtttgcccca aatggtagct tgcaagccaa gctacatgaa 180
 aggcttcctt caagtcctcc tctttcttgg gctataaggt tcaaaatctt gcttggaaca 240
 gcaaaggggc ttgtcattt gcaccactct ntccgtccgc cgatcatcca ctacaacata 300
 aagccaagta acattntgct tgacgaaaat tacaatgcca agatctcgga tttcgggttg 360
 gctcggcttc tgacaaagct ggacaggcat gtgatgagca acaggtttca gagtgcatta 420
 ngatatgt 428

<210> 18720
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18720

gcatccatta tccatagnga gaacacagat gtgtagacta ggatgggtgc tggttgaacc 60
 aaacaaatac tgtgctaagg actgcagaaa caactatctg ttcttattag gtaatatct 120
 gatatgtgaa ccattgggtc acacgatact aaattaatgt tttgagggga ggatccacta 180
 cagtagcttg ctaagttgct actgaagccc ttatgtgttg ctcatgcgtt gcactactac 240
 atgggcttgg acacccgact aaaccagttt ctaagttttt atttggagca tgatgctagc 300
 aacatacgac tattatagtt aaattacaga attatttcat ta 342

<210> 18721
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 18721

gggtcaggaa gcacaacttc agtcaagcat ttcaagtatt atggatcctt atgctatagg 60

catgttcttg ataagaggag aaagaagttg gatgacaaga gtgagccaat gatttttgtt 120
ggatacaact ctactggttc atacaaacta tacaatccaa agaatcaaca agttctattt 180
agtagagatg tctactttga tgaattaagc tcatggggag agtttcaacc tacttctgag 240
acaatcacaga agattcatct tgaattgaaa aatgatgatc cagtaggaga gatacatcaa 300
gaatggttca ataacgaacc ttagatggtg gtlgatagac ctacaagagc caaaagttr 360
cccttaagac tcagagatta tcagggttac cctgatagtg caattactga ggatggtgat 420
ttggtcagca tatggcactt atggcagaca tggaacctat tacttttg 468

<210> 18722
<211> 475
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18722

tgtctcgga atattggttc taatatggta ctaattgtt atttatgggc ttgtacagat 60
ccaaaaaatt tgttttagtg agacaataat ttttttatca atggcaataa aaacaccaca 120
acaactatca tttatataga tagatagata aatatatacc caaatattgt tattgatcca 180
taataaattt ttcttcattt ttgttccttg atatttgaca tggtttttta aattgtagtc 240
attagttaag tgatgacatg tctactactaa aaaatagggt ttcaacattg gttattaagg 300
actttccaca tcggttatta accgatgatg aaagtaccaa cgttgaaagt aatatcgta 360
acatcgattt tccaaaaccg atattaatat aaaattacaa catcggttat tgaaataact 420
gatgttatat aataagaatt ataaaaanaa gtaatatatc ttcatatcaa catcg 475

<210> 18723
<211> 474
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18723

tgtggtggtc attctctacg ccattntcat cgctgtcgta tgtaaaatga cggtaaggc 60
tcttaagaca gcaatgtaaa gatgtacggt atgataatag caaggcaaat tgaaatagaa 120
tatgtatatt gttatttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180

ttctatacca attctaaggc atgacagacg tgatccataa tcagtggcat ctgatttatt 240
ctatgcatta taaggtaaatt aaatatagaa tcaaggtaac ataggaaagt aaatatatac 300
acagcatatt tgcaatcatg tagaagatat ttcctaatac tcccnctcaa gttggtgagt 360
gaatatcgtg aagteccaac ttgttgcgca atgtcacaaa ttgatctttt cccanagctt 420
ttgtaaacac atctgctagc tagaaatttt atggcacata adaagqatto atca 474

<210> 18724
<211> 462
<212> DNA
<213> Glycine max

<400> 18724

tacattctcc cactttctca agcaaattct taattcttct tgatatcatc aaaatcttca 60
tgatttaca atatgtttta taacagctac taatatttga attcgatatt ctagactgtg 120
taatcgatta cacaattttg gtaatcgatt accagcagtt aataaacggt ttaattcaaa 180
ttttaaaagc tgtaatcgat tacacaattc ctgtaatcga ttactagaca ggattttcag 240
aaaaatattt ctaagagtca caacttttca aaggctttat tcatgactac caatgatcta 300
tatatatgtg acttataaca cgaaattgct cagaagtttt cagaacaaca agtggtttatc 360
ctctcaaaga gcaaaatcat tttatcctct taagaattcc ttggccaatt caatcgcaat 420
tcattaatga attatttgag tgctcaatct gtaaaatcta tc 462

<210> 18725
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18725

tactaaggca cctgttctag ctacgtatga cttttctaaa acttttgagc tagaatgtga 60
tgccctctgga gtgggagatg gagctgtatt gttacaaggt gggcacccta tagcttattt 120
tagtgaaaaa cttcatagtg ccaccctcaa ctacccacc tatgataaag agctttatgc 180
cttaataaga gccctccaaa ctagggaaca ttaccttggt tccaaggaat ttgtcattca 240
tagtgatcat caatcactta agtacattag agggcaaagc aagttaaact agaggcatgc 300
ataatgggta gagtacctag agcaatntcc atatgttatc aaatacaaaa agggaataac 360

aaatgtggta gctgatgccc tctctangag acacacattg ttttgctccc tacgagctca 420
aaatttagga tttgataata ttanggactt gtatgc 456

<210> 18726
<211> 420
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18726

agctntatgc ttgtcaattt tcaggaggca tctcggagag gatctttttc ggacatattt 60
gcgcaaaatc tcttgaacta ngaagatgtt gccatcatc tttttgttct taatgaaagc 120
agtttgagtg tccctaataa tagtctcaag cactggggct atgtgggttag ccagaatttt 180
agatacaatc ttgtataaca aattacagca agatatttgt ctaaaatggg taacctgcga 240
ggcctgatca tgcttaggaa taagcgcaat aatagcatgg ttgagctgct ttagaatttt 300
tccagttgta aagaattcat taaccgctgc agagatataa tcaccaatga tatctcaagc 360
cttcttgaag aataaaacat tgaaaccatc tggcctagga gcgttattgt atccatcaca 420

<210> 18727
<211> 451
<212> DNA
<213> Glycine max
<400> 18727

agctttaagc caattcatatc gacaataact gtttactcgg atgtctgatt gagtcccga 60
ttataacgaa acgctcgaaa ttgaatgttg aagctttgag ccaattctaa cgataataac 120
tttttactcg gatgtccgat tgagtctcgt aatatatcga cacgctcgaa attgaatgtt 180
gaagctctag gcctattcaa acaacaataa cgttttactc ggatgtccga ttcagtgcgc 240
taatatatcg ggacgctcga aattgaatgt tgaacctctg agccaactca aacgacaata 300
actttatact cggatgtctg attgagtcgc gtattatata gagacgctcg aaattgaatg 360
ttgaacctct gagccaattc aaacgacaat aactttgtac tcggatgtct gattgagtcc 420
cataatatat cgagacgctc gaaattgaat g 451

<210> 18728

<211> 360
<212> DNA
<213> Glycine max

<400> 18728

tagagaagct agagotttagc tacacataacc tctctaataag ctaagctcac ctctttgaga 60
tagagaadcta agagtttatct agacaccccc tatcatagct aggttcacgc gcatgacaaa 120
aaagacatga aaataacata agaagtgcctt attacataga caactcaaaa tgctctgaaa 180
tacatggcta aaacctata ctactagaat ggcaaaatat aaggcctaga caaattatga 240
acatattcta gtatgtacaa agataagcgg gctcatactt agcccatggg ctcgatatct 300
accctaacgc tcatgagaac cctatggcct ttgcttggat ctgtagccca atctacttgg 360

<210> 18729
<211> 346
<212> DNA
<213> Glycine max

<400> 18729

agctttgagc ttttcaaagt gtcataaata gtaactcgga ggtccgattc aggcgcatat 60
tttatcgtga cgctcgaaat tgaacaacgg aagctctcaa gaatatcatt ggtcataact 120
tttaactcag aggtccgatt caagcgcata atatatcgag acgctcgaaa ttgaacaacg 180
gaagctctca agaaatttaa atagtcataa cttttaactc ggaggtccga ttcaggcgca 240
taatatatcg agacactcta aattgaacat cagacgctct agagagaatc aaatggtcac 300
aacttttaac tcggaggtcc gcatcaagcg cataatatat cgatac 346

<210> 18730
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18730

tgtanggtta aagtctcacg aatgtcatgt gctcatgcaa caattgttag ccgtggctat 60
acgagatatc ttgccaaaca aagtctgggt agcgataact cgctgtgtgt ttttcttcca 120
tgctatatgt atcaaagtca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180
aattatactg tgccagttgg agatgtatct tcccccgct ttctttgaca tcatgattca 240

cttgattgtg catctgggtca gagaaatcaa atgttgtggt cctgtatatc tacggtggat 300
 gtacccgggt gagcgataca tgaagatctt aataggggtat acgaagaatc tatatcgtcc 360
 agaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt gttcagaata 420
 cttagagaaa gctaaacctg ttgggctatc tgagtct 457

<210> 18731
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18731

ctctctacat atcatgcgcc gcactcggac atgcctgtga aaagatatgt tcataccaat 60
 tgctcgagag cttacgatgc ttaatttcga gcgtatcgat atattatatg cctgacccgg 120
 acctcacagc gaaaagttat gaccatacca atttcacgag agcttacgtt gtgcagttcc 180
 gagcgtatct atatgagatg cgccgcactc gaacatccca gtgaaatgat atgaccatgt 240
 gaattttctca agagcttacg ttgcgcaatt tcgagcctat cgacatgtta tgcgcccga 300
 ctggacatcc cagtgaagag atatgaccat acgaatttca cgagagctta cgatgtgata 360
 ttcgagccta tcgacatatt atgc 384

<210> 18732
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18732

ntataagctn tatttaagcc atatctctag tcaatgtggg actaaattac cacccttgag 60
 ctgcaattaa ggcagcccc atagcaaccg caactgagct tggatagggg tgaccacaat 120
 taagcttggc tttccaacaa ttaggcaatt cctaactct tcttaccatt ttctccactc 180
 tttcaccccc tttttctctc tcttctctac acaccaacag acttttacta ctgttaggac 240
 cattttttatc tttctttctc ctcccatgta tcttgatcag cagcccatca gaactcaatt 300
 aaattaaaat acaactcang cagaacaaaa aatctgaata ttatttggac agtgaggtct 360
 ctcccaagtt tgtctatgtt tgactgctga acttatggag attaacataa atgatctggt 420

acagttgcga gggacacaca aagc

444

<210> 18733
<211> 416
<212> DNA
<213> Glycine max

<400> 18733

agcttgaagg ctaactggat gcattggtea acttggtaac ccagctggcc ttgaatcaga 60
aatctgtacc tgtcgcaagg gtttgtgggt agtgctcctc tgctgaccac catacagacc 120
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcaaagc aattatgacc 240
tctccagcaa cagatacaac cctagatgga ggaatcacc taacctcaga tggctccagcc 300
ctcagcaaca acaacagcag cctgctcctt ccttcataa tgctgctggc ccaagcagac 360
catacattcc ttcaccaate caacaacagc aacaactca gatacagcca acagtt 416

<210> 18734
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18734

atgccgtgga gtttgacaca atgtcaatga acaacatatg taccatgtga gctgtatgag 60
cctgaggtat aatgccgaag tgaatccctt ttganaagcg gtcaacaacc acaaggagta 120
caatcttgcc ctgaaaaaaaa ggaagaccaa tgacgaaatc aaggagagg tcctcccatg 180
gtctgaatgg aactggaaga gggcacaaca agcccacaat atgtttcgtt tcatatttcg 240
tgaattgaca ttcaatacaa ttagctacaa agttggcgac atcagctcgg agacctggcc 300
aagttaaatt ctccgacaac catgttattg tctttgtgac tccaatatga ccccccattg 360
gagtggcatg gtattcgatc aagagagatt gaatgagtgg aagatcatgg tgtaaccata 420
ttctgccctt ctggagaatg agattcntaa taatggtgaa gtctggat 468

<210> 18735
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18735

agcttattca gatgtacttt tatgataaaa acataagaag aaaaaatgac ataaatttct 60
tcataagttt aaaaatagtt caggcataag ttagtttata gaagctatct tatatagctt 120
ctclaaaaga tgataaagtt totacaaatt gatatgaca taaatgaatt tgaagctatg 180
gagaaattca tctcattata tttcttttta tctttttctc ctaacagttc tcttagaaaa 240
attcatccaa acacgtctca ttntaacagt taacataaac catcaagatt atatatactt 300
tatcctctaa attatttttt actttgaagg agtcaagata aaagtcatta taatgcatgt 360
gtaaagaana tactacaact catgcaagtg catatatcga tatgtttagt atatgaaaat 420
tacgaatc 428

<210> 18736
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18736

ntcttgagat aacttccttg agaattttct ttgagataac ttccttgaga agctagagct 60
tagctacaca caccctctca taactaagct cacctccttg agaagcttgc ttaagaagat 120
tcttaaagaa tctagagctt agctacacac acctctctaa tagctaagct cacctccttg 180
agatgagaag ctagagctta gctacacacc ccttataata gctaagctca cccctatgcc 240
aaaaaatatg aaaatacaaa aaaagtcctt actacaaaga ctactctaaa tgccccaaaa 300
tacaaggcta aaaccctata ctactagaat gaccataata caaggccan acgaaggana 360
aacctattct aatatttaca aagataagcg gactcatact tagcccatgg gctcgaaatc 420
taccctaagg ctcatgagaa ccttanggcc ttcccttgga tctctggcac aatct 475

<210> 18737
<211> 423
<212> DNA
<213> Glycine max

<400> 18737

agctttgacc aaattcaaac gatgataact ttttactcgg atgtctgatt gagtcccgta 60

atatatcgag acgctcgaaa ttgaatgttg aagctctgac caaattcaaa cgatgataac 120
 tttttactcg gatgtctgat tgagtcctgt aatatatcga gacgctcgaa attgaatgtt 180
 gaagctctca gcaaattcaa acgataataa atttttactc ggatgtctga ttaagtcccg 240
 taatacatcg agacgctcga aattgaatgt tgaagctctc agcaaattca aacgacaata 300
 attttttcag tcagctgtct gattgagacc cgtatataat tgaagctctc gaaattgaat 360
 tctgaagctc tgagctaatt caaacgacaa taacgctttg ctgggatgtc tgattgagtc 420
 ctg 423

<210> 18738
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> - 18738

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 tttggcgcaa attgttcacc atgtgtggca taaagctatg tatgagcact tcacatcacc 120
 cagaaatgaa ccagcaaacc aaagttctga accatacttt agagcaatat ctcaaagtct 180
 tggtcagtga cacaccaact cgctgggtca actatctctc actggcagaa tggcggttata 240
 atacatccat tcattctgct acaagaatta ctncctttga agcaacttac ggcaaggtcc 300
 cttcttctat tctcggtact tgatgggacg gtccagcgta t 341

<210> 18739
 <211> 407
 <212> DNA
 <213> Glycine max
 <400> 18739

agcttctgtt ttcaattttg agcgtctaga tatattacgg gtatcaatcg gacatccgag 60
 caaaaagtta ttgtcatttg aattttgtgt attcattttt tagcatcaag aattattaaa 120
 tgactcaatc ggacatccga gtaaaaagtt attgtcgttt gaatttgctg acagcttttg 180
 tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg agtaaaaaga 240
 tattgtcatt tgaattttct tagagctttt gatttcaatt tcgagcatct agaattatta 300

aaggactcaa tcggacatcc gagtaaataag ttatgggtcat ttgaatttgc ttagagttac 360
 tgggtctcaat ttcgtgcgtc tcgatatact ataggactca atcggac 407

<210> 18740
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18740

tgtagcanat gcaaaccaca ataactntta gtcggatat ccgattgagt cccgtaatat 60
 atcaagacgc tcgaaattga atacagaagc tcttagcaaa ttaaaacgac aataactttc 120
 tactcggatg tctgattggg tcacgtaatg tatcgagtca ctcgaaactg aatacagaag 180
 ctgagagaaa attcaaacga caatgacttt taactcggat atcccatiga gtcccgtaat 240
 atatcgagac gttcgaaatt gaatgtagaa gctgtgagaa aattgtaacg ataataactt 300
 tttactcgga tgttcgattg aatcccgtaa tatatcaaga cgcttaaaat tgaacacaga 360
 agctcgtagc anactcaagc gacaataact nttaactagg atgagtcttg taatatatcg 420
 agatgctcga aacttataac ggaagttcgt agcatattca 460

<210> 18741
 <211> 375
 <212> DNA
 <213> Glycine max
 <400> 18741

agcttgtccg ttcggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
 agagagcatg aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300
 atatccgtga tattgctgag ctgcacgaag ttgttgatat ggatgatttg cttcaciaag 360
 caatccaagt ggagc 375

<210> 18742
 <211> 429

<212> DNA
<213> Glycine max

<400> 18742

agcttttgcca catggagata gatgtccaaa aaatgaaaaa ataaaaaata aaaaatcaac 60
tccctctttgt tgtgtgtaac ccttggccac aagcctagct ttgtaacttt ggatggcgcc 120
attaacacaa tytttgatgt gataaacca cctataacca atggaacatt agcttgggga 180
aaatcagtta gatacgaagt atgatttgct tcaagagtat gtaattcatc cttcatagct 240
tttcttaata cagtttcata cttacagct tatgcatatg ttttgggttc agaaattttt 300
gaaatggcta aggtatatat ttgagatgac taggagacaa atgatgatag gacagaacag 360
tggataagga atataaagca gtacctgaag tagaagacag gaacctgctg agttagaaga 420
ttgcatgta 429

<210> 18743
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18743

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caatggcctg cagtcgttca aagcagttca atgagttctg caagaaaata ggcatacaaaa 120
ggcacataat agtccctcac acaccacaac aaaatgggtt ggcagaaaga atgaataaga 180
ccattttgga aagagtgagg tgcataactt ctaatgcatg actgccaaag accttctggg 240
gagatactgc tacaccacag catatttgat aatagatgtc catcatcagc cttatgtttc 300
aagacactaa tggaagcttg gagcgggtgaa ccacctgatt attcatgatt aaaggcggtc 360
tgatcactgg ctttcgctca tgttaaacaa cgaatgctgg atgcaagggt tataaagtga 420
gtgttca 427

<210> 18744
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18744

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 gtggatgacg cctcctctca cctcttctcc tttgtcttcc actgcatctc catggtggaa 120
 aatcaccatt aaaggacctc attgaagctc anaccaccaa aagtgagtgt tttgttggga 180
 accttgaatg tggatcatcca aacactctta ggatctgect agtttacatt tcttgcttac 240
 ttccatagct tattcccttt atcttccatt gtcaaacgc ctatagatgc ttcttcttaa 300
 ccaattagtt ttttccctta tctntcagac ctcttttagt gtttattttg gctagtttca 360
 accatagtta cttttacctt ntgttttcaa acctccaata agaaagaacc acaactt 417

<210> 18745
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18745

ttnttgaaag acaaattctt tcaaaccatt ntaaaaaggc acaaatggca atttgaaaag 60
 gcatgaaggg tctatatata tgtgtgtcta actttgaaaa gcaagaaaga gatattctaa 120
 gagaacttca ttgccaaatg ttctctcaac aactcttggg caaacactta caaatctatt 180
 gagagtcat ccaggaattt caatttgtat catccactct aaaggagaga aatctttttg 240
 tttatctcan aagtcagttg taatcaagag actggttgtc tcttgaattg tgagtatcct 300
 gaacacaaga gaaagggatt cctcgggtgt tcagaagttg taaaaaggat ttttaciaag 360
 ttagtgaaaa tctcaagtgg gttgcttgag gattagatgt angcacagga agtggctgaa 420
 ccagtataaa tcgagntgc atttctctct tcttcatct cat 463

<210> 18746
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18746

tccatggcat gaggtctggc tcccgtcttg ctcttgcccg cgatgccttc tccctttctt 60
 tatccacatg ctctctctcc ctcaatgaat taaggcaacc cctctccctt ccttcatcca 120
 agatgcttgt cgagctctcc aagtcacagg actcccctgc cggcgacagc accaccaccg 180

tcatcgatcat catcgggcgcc ctctctcaagc agtgcctnca ccttctctcc caccacatcc 240
 accccaccat cgctactgac gccctccaca aggctgccat caaggctgtc gatgtttctca 300
 ttgccatggc tgtcctcgtc aagctctoca accgtgactc cctcgtgaag tccactcana 360
 tntaatggat aggggtgata tgaatangta acccaattga aataagaaac tacccaatta 420
 natcvaatga actactacna atatgcatca acat 454

<210> 18747
 <211> 367
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18747

agctnttttc agtcgtctgt aaggatgatt ggggtgtaga aagtggatgat gctactgta 60
 cacagttttt ctcccatggt taagtgtgtt gtaacttgta ttttcttcac agatggggca 120
 tgcgatgatga cccttaacac tgtaaccgct gagattccca tatgctggaa agtcattaat 180
 ggtacaaaaa agcattgcac gcatttcaaa ggtctccttg cgaaacgcac canacactac 240
 aaccccttg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300
 gtcatttctt ggctgtcttg ggcccgatat catcatattc agcgtcatgt gttttcgctt 360
 catgcac 367

<210> 18748
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18748

nttaatggaa gtcaagagca cgatattgcg ccataccgt tgactggatga gcaggtatat 60
 cagcgggttc aacacctgaa tactgtatgt ggaaagacc aaagaagga taaaagtaag 120
 agttgcatat ggaaaaagag gtccattttt ttgatcttc tgtactagtc tgatctagat 180
 gttagacatt gtattgatgt tatgcatgtc gagaaaaatg tatgtgacag tgtgattggc 240
 acgtcctta acattcaagg caagatgaag gatggcttga ataccgtca agatctagct 300
 aatacaggga tacaatcata gttgcatcca aggtctgatg ggaagaaaat ttacttgccc 360

ccagcttgcc atactttgtc caaaaaggag aagatcccggt tttgtcagtt tcttcgctcgg 420
gtgaagggttc cacaaggata ctcttc 446

<210> 18749

<211> 461

DNA

G1

<223> ons

<400> 5/49

tcaggttgct cattgactcc agattgatgc ataanaggac aaagatctgt atggtgatct 60

acagaagaac atagaccaca gactctttca acagggttag attttttatt catggcaagc 120

agcattcaac tttccctca agctttttaq tttcacttga attgaaatt gaatttttga 180

gacaaatfff cactaattat gattagtga ttttagctat gggtcagccc accaatccaa 240

aggacatgaa agtgtga gatg tggcaatggn gtgtagcaag caaatgatca 300

cctccccctc taatanttta atggattggt cttctcccaa t 360

aggtatgaa agtgtga gatg tggcaatggn gtgtagcaag caaatgatca 420

cctccccctc taatanttta atggattggt cttctcccaa t 461

<210> 18750

<211> 330

<212> DNA

<213> Glycine max

<400> 18750

agcttctact ataatgtaaa ggtgaaatta tgtataagtt ggggtgtcata agttgaacta 60

aatacattga tctaaacata agtgaaaagc ttaaggctct atctagctaa aaaaagacag 120

acaaaataat gaactcgttc cattaactaa aattcaatta cgagataaag catagatagc 180

aaagattatt acatagatta tgtacttggc taaacttaaa ggagtgttgt tcgccggcga 240

gctggagggtt gccgctgacg aagacgatca tggcggagtt gacagcggac ggctggggaat 300

cgacggtggt gatggagtgc tggcactggt 330

<210> 18751

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18751

agctntcatt gttcaatttc gagcatctgg atatattatg cgcctgaatc ggaccttcga 60
gttgaaagtt atgacctnt gaatttcacg agagcttccg tggttcaatt ttcagcgtat 120
cgatataatta tgcacctgaa tgggacctcc gagtgaaaay ttatgacctc ttgaatttcg 180
cgagagcttt cgttggtcaa tatcgagcgt ctcgatatag tatgcgcggg aatcggacct 240
ctgagtzana agtaatgacc atttgtattg ctcaaaagct ttcattgttc aatttcgagc 300
gtcttgatat attacgcgcc tgaatcggac ctctagttg aaagatatga ccatttgaat 360
ttctcgagaa gcttcgttgg tcaatatcga gcgtctcgat ata 403

<210> 18752

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18752

tctaaactnt gtacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60
tcttaagaag gggggggttg aattaagata ttcgaaactn tntcttctaa ttaaaaatct 120
atcttacttt gtacttaagt tatgaattcc cttaaagaca atcttcttaa atattaattc 180
aatgaagca acttgaatat gaatataaag caataataaa taaaggagat taagggaaga 240
gaaaatgcaa actcagtttt atactgggtc ggccacaccc ttgtgcctac gtccagtcct 300
caagcaaccc gcttgagagt tccactaact tgtaaattcc ttttacaagt tctaaacaca 360
caaggacaac ccttcctttg tgtttagaga ttctttacaa caagagactc acagtctctt 420
aatcccttag agaatgagaa gaa 443

<210> 18753

<211> 306

<212> DNA

<213> Glycine max

<400> 18753

acagactcgc agcagctgaa tcattcctct atagcatcct taaagctgct ccctcagctt 60

taagcgcttg aatgccatgc tatacaggct gaactatgac tcacagattc aagaaatcaa 120
tgaatctctg ctgaccattg aactgtgagt gaacgagctt aaaagcaa at gacctcttgt 180
gaagcttcta gaagcaatgc ttaatgcagg aaatcgaatg aatgcacgaa ctgcaagagg 240
caaagctcaa gcttttttca atgtggcttc tctaaggaag ctctctgatg tcaagaccac 300
cctcctg 306

<210> 18754
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18754

agcttgtagc atattcgaac gacaataaca ttctactcgg aagtccgatt gagtcccgtg 60
atatatcgag acgctcgaac tttaacaaccg aagctcgtag caaatatgaa cgacaatgac 120
atttactcgg gaagtcctat tgagtcctgt aatatatcga gacgctcgaa atttanaatc 180
gaagctcgta gaatatacga acaacaataa ctttttactc agaagtcgga ttgagtcccg 240
taatataatc agacactcaa taattanaac ccaagctctc agatacttct aacgacaata 300
actnttact cggaagtnct attgagtccc gtaatatatc gagacgctcg aaatgtanaa 360
ccgaagcccg tagcacattc gaacgacaat aacattccac tcggaagtct gattgagtcc 420
c 421

<210> 18755
<211> 444
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18755

cttcgggtta anattcgagc gtctcgatat attacgggac tcaaccggac ttccgaacga 60
aatgttattg tcgttataat ttgcagagag cttcgggttt aaatttcgag cgtctcgata 120
tattacggga ctcaatcgga cttccgaggg aaaagttatt gtcgttagaa ttatctgaga 180
gcttgggttt taaattttga gtgtctcgat atattacggg actcaatagg acttccgagt 240
gaaatgttat tgctgttcga atntgctacg agcttcgggt taaaaatccg agcgtcacga 300

tatattacgg gactcaatca gacttccgag tgaaatgta ttgtcggtcg aatntgctac 360
gagcttcggg tttaaataac gagcgtctcg atatattacg ggactcaatc ggacttccga 420
gtgaaatggt attgtcggtc gaac 444

<210> 18756
<211> 309
<212> DNA
<213> Glycine max

<400> 18756

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taaaaagtta tggccgtaag tatcggtcca gagcttctac tatcaatttc tagcgtctcg 120
atctgttacg ggactcaatc atacatccga gtaaaaagt atggtcgttt gcattggctg 180
agagcttcaa ctttcaatat caagcgtctc gatatgttac gggactcaat cagacatccg 240
agtaacaagt atggccgttc gtattggctc acagcttcaa ctttcaattt caagcgtctc 300
gatatgtta 309

<210> 18757
<211> 465
<212> DNA
<213> Glycine max

<400> 18757

tgcgatata tcttgcgcct taatcggact ttcatttgat aagttatgac catatgaatg 60
tctcgagagc tttcgttggt cattttcaag cttctcgata tagtatgccc ctgaatcgga 120
cttgcacttg aaaagatatg accatttgaa cttctcgaga gcttgcgttg ctcaatatcg 180
agcgtcttaa tatattatgc gcctgaatcg gactttcgtg tgtcaagtca tgactatttg 240
aatttcttga gagcttgtcg tgttcaatat cgagcgtctc ggtatattat gcgctggaat 300
tggactgtca tatgacaaga ttgaccatt tgaatatctc gagagcttcc gtgaccgttc 360
caggttttaa taagaagaat caccggacga cgccgatcga acattgtcta gtagacatcg 420
tccaaatatt atcggcggat tgaatatata aaacaatacc ggaca 465

<210> 18758
<211> 470
<212> DNA

<213> Glycine max

<400> 18758

gcttgtgata tttatactat atatgtgtgt gtcttcgttt atctctacct gtttaaaaat 60
gtgttaattc actcctcatg tgttgtttat gtttggatca tgtgatgac ttaaacccttg 120
ggttctcag agcaatgac taggtgaatt acttaagaa accttgtgat gaaggaclcc 180
gagacacaat attttgatag gatgtaacat tggaacaaga gtttctatct taattgcatg 240
atgtatcaaa catgtcattt tactctatct gataaacttg aacagtcttg ttttaagtca 300
taaataattc taagacattt tatttggtaa cagtgaagcg aatgtgaaca ttatccacgt 360
gaacttattt acgatcttat tgaataaaat tgatttaatt agattccgca ttgtatatat 420
gtttctttca tatatatgta tgttggagta caatgtgtga gagacatctt 470

<210> 18759

352

<223> unsure

<400> 18759

atc tgcacattaa aggtgtacat tcaatcfaat t 60
ttgtaaaagt tta 120
tctctttgat gcaatcctcc c 180
gccagaggcc caagaggat tgggctagag ttgctaaaga aggcctatg g 240
acctcaaggc agattttctga gcccatgggt caaggttggg tccaattatc tttgtacata 300
atcng atgtcattat atttggfctt atattttggg actgctatct at 352

<210> 18760

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18760

agcttcatca atgaaacaag gaaccctttc cgtcacggag tacttcacaa agcttcgtat 60
catatgggat gaaattgaga acttcagacc tgaccccaact tgttcttgca ccatcaagtg 120

tacatgctca gtctcacca tcattgcca acggaaatta gaagaccgag ccatgcaatt 180
cctatgagga ttaaacgagc agtacaacaa tgtgagatct cacgtgttgc tcatggaacc 240
catgcccacc ataccaaaga ccttctcctg tgtagcccaa caagaacgtc agctatcaat 300
tccttttcaa atctcaatct tgaatcanaa gaaaacgttt ccattaatgc cgtcaagaat 360
acttgtgaat tctgcgagc aaatggtcac accgaaagcg ttggtacaag aaacatgg 418

<210> 18761
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18761

ttccaaanag agttactaga gacatgttag taagatctct tgattatgca attgttgta 60
cttttggttg ccattgcctg cttaaaccatc taaacactct gttaatgaga tcttcaatag 120
gaaatatttt tcccagtgat gcaagatgat taactatatt agtaaacttc ttttgcata 180
cttgtatggc ctcatttga ttcattctaa acagttcata ttcattgttg agagtgttta 240
ttctagatct cttaacatca gttgtgcctt catgggttac ttgtaatgta tcccatatt 300
cttttgcatt ttacaattt gagactccaa aatacttacc cattcttctc taagtttttc 360
tatcagtgc taccacta ccattgcagg aatgaaggga ccaatgtcaa tggtttccca 420
tatatntaaa tctatggctt ctata 445

<210> 18762
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18762

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tcaactctctg tatcatcaga ccgacttaca ganagtcctt tcctctgctt cttgagatga 120
gtgggacatt cagctttgat gtgtccaaag ccttcacacc cagggcattg aattcctttg 180
ctgtgactgg gcttttcatc tgaccttttc tggatttacc tgcctttcct gatgtcgaaa 240
gggatgttcc ggacatgtgg tttctgcctt ctgtccattc tgttcatcac tttgttgaac 300

tgctntccaa ggagcacaac tgcattagtc agaccttcat cagtttccag gtcataactca 360
tcttcttctc cttcatcatt ggacacgaaa gccaaattct tgctcttctt ttcagcccta 420
tccgagagtc ct 432

<210> 18763
<211> 449
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18763

ttttcattat atattagcat ttcatttgcc tccttacatt tgatgcatca ttggtgtctt 60
ctagcagtga tgatatgatt tttataagat aaccaaattgt ttacttcttc caaaattgag 120
gtgtttgttt gggttgtaga aatcttcata tttgatgtta tgcttttacc ctttatttca 180
atgttgattg ttctttcatt gcctcaccag acaagatcta agaggttctt ggaaattcaa 240
caattgaggg agcataataa agagtatgac atgaagacaa caatatattt ggtaaagaa 300
acaactaaaa ccaagtttgt agaaatagta gacgcccatt tctgcctcaa cattgaccct 360
aaatataacg atcaacaatt aagagcaaca gtgagtctcc tgctacttgc ttgattatgg 420
tatatgcagt tacattgaan acgtgaggt 449

<210> 18764
<211> 445
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18764

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agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccba 180
aggcaacaag ggggttgagg agtatattcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatgggttga ctaatgatat 300
ccgtgatatc gttgagctgc aggagtttgt tgaaatggat gatttgcttc acatagcaat 360
ccaagtggag caacaattaa taaggaaggg agtagtggct aagaggagtt ntaccaactt 420

tggtttcttct agttggaaag acaaa

445

<210> 18765

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18765

atgaaacaac gagatgatgc gctccatgag aggctggatc aaatggagaa tagagatcat 60

actgaagaag aaaggatgag aagaggggaat gactgggttc ctagaacaaa tccgaattga 120

tggtattaan actcaacatt tcctgcatat aaaggaaaga atgatcccgat tgcttacttg 180

gagagggaga tgaaaataga gcatgttttc tcatgcaaca actatgagga ggaccataag 240

gtgaagcttg ccgccacgga gttttcgact atgctcttgc gtgggtggaac aagctacaaa 300

aggagagagc aagatatgaa gagcccatgg ttgatacatg gactgagatg ataaagatca 360

tgatgaagcg gtat 374

<210> 18766

<211> 412

<212> DNA

<213> Glycine max

<400> 18766

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gtgatgctag tggagttggc attggggctg ttttgataca aaacaaaagg cctatagctt 120

attttctgga gaaattggga ggagccagat tgaactattg cacctatgac aaagagttct 180

atgccattgt gagagctctt gatcattgga atcattattt gcgttctaata cactttatat 240

tgcattcaga tcatgagtca ttgaagtata tcaatgggca gcagaagttg agtccaaggc 300

atgctaaatg ggttgaattt cttcaatctt ttaattttct ttcaaaatac aaggatggta 360

agagtaatgt ggtggctgat gcactttcaa ggaggtatgc tttaatttca at 412

<210> 18767

<211> 417

<212> DNA

<213> Glycine max

<400> 18767

agcttgaaaa attgatagag ttttattctt agatttaata ggaaatatcc aagtgtacct 60
ggaaaaggca tcaataaagg atacacagta tttatgacca gcataggaag tcaaaggctc 120
ccacaaatct gtgaagataa gctccaaagg agagtaaaca gaaatagaag tgtgaggtgg 180
taatctatga gatttttcca tcagcaggaa gaacaaaaat cagaaaatat tttagtagtt 240
ctgguaaaata ttacaatgat tcaaaactaa ctccattaca ttaactattag galdagctaa 300
cctagcatgc cagagactag caatactagg agaagaaaca acagaattgg aaaccacagt 360
agagttttca ttaaccgtag cagctgtaat agacaagcca gtatctgaaa ttgagta 417

<210> 18768
<211> 359
<212> DNA
<213> Glycine max

<400> 18768

ttaacttctt ggaatgtgca tgtggcgatg gataaaggca taatccaagt taccttaacc 60
aatccagatg gaacttgca tgggatacga tataatggcg gtgacagtct gcttgaagtt 120
ctcaacaagg aaactaatag agggatatgtg cccctagcga tgagtatctg tgaattgtat 180
ctctctcaca cgtgtgccgc tgtgccgagc tcagtgccag agaaccattt tctgaaatgt 240
aatggtaatg aacaggaagt atcagaattc agctgacaga gtaacattga cacaggaatg 300
ggcgccagac caaggatgtt gatgtgatgc aatactgttt tttgtaccga tggtgcttg 359

<210> 18769
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18769

agcttatagt ctttacttat tgagaacaat aagccaaagt caatagttcc tatataacga 60
agaattcatt ctgcggcctt gagatgagta gtggttggag tctccatgta tcgactgatg 120
agtctagtag catatagaat gcctgatttg tgcacatcac atatcgana ctaccacca 180
cactctggaa attattagca tccacctttt ctgcctcatt gaactgtgat aacttcattc 240
tgtactccac cgttggttcaa agtggcttgt agctatccat cttgaatttc ttgagcatct 300

tctat

305

<210> 18770
<211> 372
<212> DNA
<213> Glycine max

<400> 18770

agctttaacc ttattgtctc tcatagtctt tagatttggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagccgcc aatgatecca ttactgcttc ccctaagctc 120
tctgtccttt cttcatgccg catcccatgc cttgcgaact ccttggagta ccctcgcgtt 180
gtggtcacta aaatctcgtg cgatgaaagg cgtgattgat gcaagctcca ttggagcttg 240
taggcctagg atcttcttca ccaatggatt cctttgcttc ttggaagata aatggcagcg 300
gaatggagaa ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa 360
gctcaccacc at 372

<210> 18771
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18771

atntccttgt ttcctattaa cacaacctgt acctgcgcac canaaagaaa tgcaagaaga 60
ggtcgtatta ttctcatgag ccctangata gattttgggc ccatgggcta agtatgagcc 120
cacttatctt tgtacatatt agagtaagat ttcattatctt ttggatcttg tatttatggc 180
tccataatgt aggtagggtg ccctagaaat gtaagatttt tcaaccattg tattttatga 240
cacctagact agtattttgta ttatgggtag ttctgtaatt tcacatgcat taagtgaata 300
tatgatgtgt gtgttgcgaa atacaattaa ttgaatcgng tgaagcccaa tccaattaa 360
ttttataggg ggagat 376

<210> 18772
<211> 429
<212> DNA
<213> Glycine max

<400> 18772

tcacacgtgg ttttgataca acagcactgc tgccgttggtg gatcttgtat tcaactcataa 60
 aggacattag cgcgagtgtc atttactcaa cctctgcac caacatctgg aacgatcttg 120
 agaaacattt caacatcaag aacggaccca gaatcttcca attgcggaaa gcattactca 180
 attgtgttca aggaacgaac tccatcaata tctacttcac gcgattcaaa gggctttggg 240
 ctgauctgug tgaactcaad gccaatcaca glltlaattt tggcggggtt gctccactcc 300
 ttgcttccat caaagaggaa tttgtcatgt catttcta at ggggtgtcaac gagagttttg 360
 cccatgctag aggtcaaatc ttgttgatga aaccgattcc ggatattgat gagaccttct 420
 cattattgc 429

<210> 18773
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18773

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 gctcacctcc ttgagatgag aagctagaac ttagctacac accccctata atagctaagc 120
 tcaccncat gacaaaaaac atgaaaatac caaaaaaag tcttactac aaagactact 180
 caaatgccc cgaaatacaa gggctaaacc ctatactact agatggcaaa atacaaggcc 240
 caaacgaagg aaaaacctat tctaataattt acaaagataa gcgggcttat acttggccca 300
 tgggctegan atctacccta aggctcatga gaaccctang gccttccttt ggatctctag 360
 cccaatctac ttggagtctt ct 382

<210> 18774
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18774

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 ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120
 gtgaagatgt tcaaagtttg gctatgaaga tggttcanac tgagaaacat ttggtatttc 180

cattgggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca gcatccgttg 240
aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300
tgtgggttcaa tgacttgatg gtatgttaca ccgagcgga gatattcaag tcgctggatg 360
atattgatet ta 372

<210> 18775
<211> 465
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18775

gtcctttaat ttcacaatta tgttatgcc ncttatagt accttaaact gttggacgta 60
taagattctt atatttacca atagttcact ttgcctaata actttgcaca cacgcataga 120
aatcagtatt tccaaagtcc taaaatttgt gattgcaata ttaattttta atgctctttt 180
tcagggcaat atcagcatgg tatgagaatc gtcattgggt taacacttta tgcaagacag 240
tgatggagca agactggtct tggaatcgcc ctgcacttga ttatctggag ctttaccatg 300
ctgcacgtaa gtcagcatga gatttaatat acatgaatta agtttcatcc tctttgtaca 360
cattnttttg gtaagcttca gtttgaacac acttgattgc atctggtgaa tccttcaaaa 420
agataacaac tacgaggtga anagccataa aagatgatga gcttc 465

<210> 18776
<211> 423
<212> DNA
<213> Glycine max
<400> 18776

agcttctttc gattaatgaa gatgataata ttacatgtta ataagttgac agttttaagt 60
gtcttgatgg cttgtggcac aattaagtct ttgctatttg gaagagaagt tcatgcacag 120
atgattaaaa gtgatatcca taccaacata tatgtaggaa gcactctggt atggttctat 180
tgcaaatgta aagaatactc ctatgctttc aagggtgctc aatatatgcc tttcacggat 240
gttgcttcat ggactgccat tatctctggt tgtgccaggc tcgggcttga acatgaggct 300
ctggagtctt tgcaggaaat gatggaagaa ggcgtgttgc ctaattccta tacttactcg 360

tcagccttga aagctcgtgc agaactggaa gctccaattc atggaaacgt aattcattcc 420

tac 423

<210> 18777

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18777

aactgaaatt tctttatcan aattacatat ttataatact taacagatga taagtaatat 60

taatcataatt tttttcattt gtaaaaaaatt aaactcacat attaaaagat ttacaatttt 120

caaatacagt gttcaattaa taaagttaaa cccgttaatg ataattaagt gtagatagaa 180

tgatttcata tattttattct gtcaaaaagt ttttattgaa tataaaaatt ataacataag 240

gattatgttt caaacaactt tnttctcttt taagatgttt tcatactttt ttactagtta 300

aaaatgatnt tattnttttt atncaaacaa aattaatgaa ctcaagccac tttttacaaa 360

cttactccga caattttttt taattataat ctatataaca ataattttca ttatcatata 420

actaatatta aatatttaatt t 441

<210> 18778

<211> 278

<212> DNA

<213> Glycine max

<400> 18778

tctttctcaa tccaaggaag tatgcattgg aattgcttga agacagtggg ttattggcta 60

ctaagcctag gacaactccc ttgattgct tcttgaagct tcatgaccgt gactcacccc 120

cttatgaaga tgaaacagcc tatatgagac ttgttggcag acttttatat ttaactacaa 180

ccaggcctaa cattgctttc attgttcagc aacttagtca attcatctct cagacattac 240

aagttcatca ctcagcagca attatagtcc tcaatatc 278

<210> 18779

<211> 307

<212> DNA

<213> Glycine max

<400> 18779

cacgttagtt gagtcacaca atcaaattctc tcacagcact cttaccaaat ttacctaata 60
 tttaggtact gaacataact tacattaagc ctctgctatt ttactattgc tggtcattaa 120
 aataatttaa gagaaatcat agtaaattctt aacaagtga aatatttata tggtatgaac 180
 caattaagaa ttataatata tataatcttt aagataagtt ttaattatag ctttgatccc 240
 taattaatat ttaattgttg gatttaattt ttgtatttaa ttctataata aatatttctt 300
 ttacgac 307

<210> 18780
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18780

tctcgatata ttatgcacat gtatcggacc tncgagtgac aagttatggc catttgaatt 60
 ntccgagagc ttccgctgct caatttcgag cgtctcgata tattatactc ctgaatcgga 120
 cctccgagtg aaaaggtga accatttgaa tctctcgaga gcttacgatg ttcaattttg 180
 agcgtctcga tatattatgc gcctgactcg gacctccgag tggcaagtta tgaacatttg 240
 aatttctcga gagcttccgg tgctcaattt cgagcgtctc gatataattat actcctgaat 300
 cggacctccg agtgaaaagt tatgaccatt tgaatttctc gagatcttcc gttgctcaat 360
 ttccgagcgtc tctatatgtg atgcgcctga atcggacctc cgagtcacaa gttatgacca 420
 t 421

<210> 18781
 <211> 485
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18781

cactaagctt gcgtttggta acaacttaac taacttctta ttgaacaagt gtttatcata 60
 tctcatataa acgcttgtgt ataagcgctt ttataattg aagtggaaag aagtaaagtt 120
 aaactgggtt catataagct ataagttggt ttctaaact atcttgaaga gcttatngaa 180
 ataaacagaa aacagctaata aagcatatct taaacactgg ttccataagc tntctcanac 240

actaacacaa agttcatgag agtaatatat gtccttccta caaattcttt actgcttaat 300
 tcctataagc tcatgtgcat gataagttca caagggattg attaatctgt ttacctaaat 360
 gtcacagggt ggtcatgatt agggatatnta tacatcagta taatcatacc taataaataa 420
 ctatattata agtgggtatt ataattataa ccataacttt ggttttaa atgggtatat 480
 aacta 485

<210> 18782
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18782

agcttccaga attatgacct catcaaaacta ctgtgttccc gagggaaatt ctataaatag 60
 acctcccatc ttttatggag tgggttacca ctattggaaa acccgcatgc aaatctttat 120
 agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180
 agtggccgga agtgcaacaa tagaaaaacc tagagcagat tggactgagg aagaaagaag 240
 attagtacaa tataacttaa aggccaaaaa tattattaca tctaccctan gaatagatga 300
 atacttttagg gtttcaaaat tgaaaagtgc taaggatatg tgggataccc tacaagtaac 360
 acatgaaggc acaacaaatg ttaaaagatc taggataaac acattaactc gtgaatatga 420
 actggtttagg atgaatgtaa atgaaagtat acaagacatg caaaagaagt tcacacacat 480
 ag 482

<210> 18783
 <211> 328
 <212> DNA
 <213> Glycine max
 <400> 18783

acactataga aactcaactt gaaccctact tttgaaatgt attattcaag gaaaattctt 60
 ctttgaacag caatgaccat caatatgata tttgtaatct tacagagcaa cctgaggatc 120
 taaaagggtg ttcttttgtt ccccatcagc ttgaggcact gaactgggtg cgtaaatgct 180
 ggtataagtc caaaaatgtg atacttgctg atgagatggg gcttggaata acaagatctg 240

cttgtgcttt tatttcatca ttgtattttg aattcaaagt ttcacttcct tgctaggtct 300
 tggtagcact ttctaccatg cctaattg 328

<210> 18784
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18784

actaagctta agaaatatgg cctcatcaaa ctacttgctt cccgagggaa attttataaa 60
 tagacctccc atctttaatg gagtgggtta ccactactga aaaacccgca tgcaaactctt 120
 tatagaggca atagatttaa atatttggga agccatagaa caaggacctt atgttccctc 180
 tatagtggcc ggaagtgcaa caatagaaaa acctagagca gattggactg aggaagatag 240
 aagattagta caatataatt taaaggccaa aaatattatt acatctgccc tangaataga 300
 tgaatacttt anggtttcaa attgtanaag tgctaaggat atgtgggata cactacaagt 360
 aacacatgaa ggcacaacag atgttaaaag atctangata aacactntaa ctcgtgaata 420
 tgaactgttt angatgaatg taaatgaaag tatac 455

<210> 18785
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18785

tcaagctagc atgattanga ttgctcacc tacaccagca gtcggggtaa cctttacaga 60
 aatatgatca ccactctgaa tctctagcag tcttctacac ttatcttcat aaggattatg 120
 tgtactatgt gaagttttta tgctatcttg aatcaactta atcctctctt cggtttggtg 180
 caagaatctt ggggccccac gaccatattt gcaccatctt ggtaacaaca aaggggtggt 240
 ctacacctcc taccatataa agtttcaa atgtgtcatgc caatgctaga atgaaagctg 300
 ctgttgtagc tgaattccac caaagggcaa acctgatcct atctacctag atgatccac 360
 acacatgctg gcaaatattg tctaatagact atatcgtcct ctcggatt 408

<210> 18786

<211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18786

tatcctataa ctgactaagc tctattggta atcgattgca gtcttgtgta atcgattaca 60
 tcctactgtt ctatggtaal cgattacagc gagtgglaal cyattaccag acctaaatca 120
 aggctttctc taaaaatcta actattgctt actcctaaaa actacatact cattgtatct 180
 tttatctacc acaatcagag atcaataata gactttgaaa aacaagcatt ataaacatct 240
 taactacaac catcaagcac aatcacaagt acaaataac tcaccaaata aataatcatc 300
 aaatcataca caaagaanat cattaagccg caatgtacaa ccattatgat tgtcaaaaaca 360
 caaacaaga taatcattga caatcattca atcattatga ccatcaaaac acaaacacaa 420
 tcataaaaaa agaanatata aattaacaat 450

<210> 18787
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18787

agctntgaat gctctattca atggtgttga caagaatatc ttcagactga tcaacacatg 60
 tacagtggcc aaggatgctt gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
 gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180
 agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg atgacagatg anaagctggt gcgaaagatc ctcagatcct tgcctaagag 300
 atttgacatg anagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360
 tgaactcatt ggttccttc aaacctttga gctangactc tcggata 407

<210> 18788
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18788

caatttcatg cgtctcgata tattatgcgc ctgaatctga ctttcgtgtg aaatgttatg 60
 accatttgaa tttctcgaga gctttcgttg ttcaattttg agcgtctcga tatattatgc 120
 gcctgaatcg gacctccgag ttaaaagtta tgaccatttg aaattcccga gagcttccgt 180
 tgttcaattt cgagtgtctc gatatattat ggcgcagaat cagacctccg tgtgaaaagg 240
 tatgaccatt tgaatttctc gagagcttca otttttcaat ttcgagcctc tcaatatatt 300
 atgcgcctga atcggacctn cgagtgaaaa gttatgacca tttgaatttc tcgagagctt 360
 ccattgttca atctctagcg tctcgatata ttatgcgcct gaatctgacc tccgtgtgaa 420
 aaagtatgac catntgaact tctcgagagc tttccgttgt caatttcgag c 471

<210> 18789
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18789

agcttgaaat tgatacaacg gaagttctcg agaaattcaa atggtcataa cttatcaccc 60
 ggaagtccga ttcaggcgca taatatatcg agacgcccga aattgaacaa cgaatgctat 120
 caagaaatta aaatggatcat aacttgtcac atggaagttc gattcagatg catactatat 180
 ggagacgctc gaaattgaac aacgaaagct cccgagaaat tctaattggc ataacttgtc 240
 acacggaagt ccgattcacg cgcatactat atcgagacta tcgaaataga acaacggaag 300
 ctctcgagaa attcaaatgg tcataactta tcacacggaa gtccgattca ggcgcataat 360
 atatcgagac ggtcgaaatt gaacaacana tgctctcaag aaatagaaat ggtcataact 420
 tgtcacacgg aag 433

<210> 18790
 <211> 484
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18790

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 tttgaatttc tcgagagcat ccattgttta atttcaagtt tctcgatata ttatgcacct 120

gaatcagact tncgtttgaa aagttatgac catnttaatt tctcgagagc ttccattggt 180
 caatttcgag cgtctcggta tattatgogc ctgaatcaga cttncgtatg aaaagttatg 240
 accatttttaa tttctcgaga gcttncattg gtttaatttca agcttctcga tatattatgc 300
 acctgaatca gacttccggt tgaaaagtta tgaccattnt gaattctcga gagcttccgt 360
 tgggtcaattt cgagcgtctt gatataattat gcgcctgact cggacttncg Lgtgalaagt 420
 tatgaccatt tgaatntctc gagagcttcc gttgggtcaat ttcaagcttc tcgatataatt 480
 atgc 484

<210> 18791
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 18791
 taagcttcca attttttaag ttattcctca aaactgtcct acgcaaagtt cccaaagtcc 60
 tattaacaac ttccgtttgc ccatcggttt gtgggtgaca agtgggtgaa aacaacaatt 120
 tagtgcccaa cttgctccac aaagtcctcc aaaaatgcaa atcatcaagc ctaggtatag 180
 gatgcctata tttaatgggtg atgttattaa gggctctaca atcagaacac atgcgccatg 240
 tcccatacctt tttagggacc aaaatcactg ggacagcaca aggactcata ctatctctta 300
 cccaaccttt gctaattgagt tcatccactt gtctttgaat ctctttgggt tcttgtgaat 360
 tacttctata ggctggccta ttgggcaaag aagctctcgg aatgag 406

<210> 18792
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 18792
 ttagcttatg acttttatta caagccttta tagagaatgt gggaaacaca aattaaataa 60
 aaaatatata acgacttata aactagatgc atttatcata aaacatcgct atctaccatg 120
 ttatatttta tataaagagt attaaaaatg cacaattaac tatttaaacc ataagagtaa 180
 cgtaaatacag ttataaaggt gttgacaatt taaaagctga tatatatcag acgaaaccta 240
 tttgggtgat gtatttggga aatttcattc ataatagttc tttgctaaat gcaatcatgt 300

tagattgtaa agcaaaagga aagaaaaaca ttatttataa aaatatataa gagtcaagct 360
 aaaagacaag tagtgataga tacggaatth tgcaatgaat tacggtataa c 411

<210> 18793
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18793
 agcttcaaga tttatggcct catcaaacta cttgtttccc gagggaaatt ctataaatag 60
 aactcccatc tttaatggag tggggtacca ctactcgaaa actcgcatgc aaatctttat 120
 agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180
 aatagccgga agtgcaacga tagaaaaacc tagagcagat tggactgagg aagaaagaag 240
 attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaatagatga 300
 atactttagg gtttcaaatt gtaaaagtgc taaggatatg tgggatacac tacaagtaac 360
 acatgaaggc acaacagatg ttaaaagatc tatgataaac acc 403

<210> 18794
 <211> 213
 <212> DNA
 <213> Glycine max

<400> 18794
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 acattatcca gtgtctctat atgtgatgcy ccttaatcta acatccgtgt gaaaagttat 120
 gagcatatgg atatctcaag agcttccgct gaacaatttc gagcctctcg acatattatg 180
 cgcttgaatc ggacatccgt gtgagaagct atg 213

<210> 18795
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18795

tgagcttcat tcgcagatcc ctcatgtaag actacactcg atttagatag ttctcttagg 60

tttagactaa gtttaactga gtttcatctg tagatccctc atgtaagact agactcagct 120
 caagtagctt actaaagttt agcctaattt agcctaagct tcgtctgcga tgggtgtagtt 180
 tttaggaggg ggtggcttgc ggtgggtggcg gnggacagtt ttgatgatga ggggtgaagaa 240
 gctgacgagg aaggcataga caacgagagt gccaaagtgtc tagatgaaga cctagcgact 300
 aacaatdarg cagcccagat atargtaoct tttctcttc tttntargtt cttcttctgc 360
 caagagccag ctatgttggg tctcatccaa agcacctcgg tccagctcat ggagattcgg 420
 tggcggagtc tatggtgtga atctcaagca ggctcccca cagatcccta ctgtgcatac 480
 taatt 485

<210> 18796
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18796
 agcttgtgtt ttttaatttc cattgtatgt acaaattatt gaaatatttg ccatttaatt 60
 tcattttcaaa gcacattgca gaatttcaat gaaaagtgac ttgttattac aaatagaaaa 120
 gtttatatttt gtttaattac aattcaaaaa tattattcat ttttgaaaag taattacaaa 180
 tatacctttt ttagaagtaa ctcaataaaa cttctcaaaa taatcagaaa tatatttttt 240
 caattttttt ctcaaaatat caaatgaata cattaaatat ttttaataata atattttctt 300
 tttcaaatga aaaataactt ttcataaaaat ataaattaaa cagacggact tgtaattaga 360
 gatattgtcc gcctttagtt taagcttcag agtcattaat ttatgttcat tatgttc 417

<210> 18797
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 18797
 ccattgtctac caccaacttt aggttctacg acttcaagct taagaagaat tgggtcagct 60
 atcactttgg tcaagacatc attgacagaa tcaaagtaat gatcaccttt cacaaggttt 120
 gttcttgaaa actttttaac acccaggaaa agaaaggcca ctaaattttt ggagctcaga 180
 gaaccttgat tcttttagtt ctccgagttc taaccttttg ccaataagcg aggccaaaca 240

gcttcctaga agatatcatt acttttggct ttgcacaaat tggatcccc cagtcaaag 300
cttgattata tcaact 315

<210> 18798
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18798

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aattgtactc ccagaagaga ctcataaagg tctcccttaa ggcgcttgg tctgcaacat 120
acgcgcctgc aaactctacc agatctcaac attctcaaga cagttcatta cctgtaactc 180
taagattgat tnttcagaat gtagataagt ttggagggtga catttattat tcagctggta 240
ctggtatgag cgatataatc cacanagatc caacctgttt ttctgctctg catgaaat 298

<210> 18799
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18799

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nacaaaatgc aaggctgcta ctaggtggat tgggtgttaa gtaagtcatt taaacaatgc 120
ttctaatttg tattttatta ttgtgtagac taatttgtac ttaacattga atatccaaat 180
ttcataatgt atctagtgtg atagacaaaa aggaatcact gaatgcaggt attacgttat 240
gcactggatg tcaactataa tcttagtaag tttcaagaat aattgtgaaa agataattgg 300
ttaattcaca catatnntca ttttttgtaa ttgatattat atattattaa cttatgtctt 360
attatatcat gcagtatttc aatgatgcta gaccattaan accagagaga ttgaaggcac 420
ttcgcatcta gtgggcaaac tact 444

<210> 18800
<211> 408
<212> DNA
<213> Glycine max

<400> 18800

agcttattcg ttgccccttg aattgattgc caagctctgt tcgttcatga atcctccgcc 60
gaattgattg cctaacgctg ttcgtgcac cccatcac aaatcttatt cggagcccca 120
tgaattgatt gccgttcatg catcctcccc attgagtcgg gagccatacg aattgactgc 180
caagctctgt tcatccatcc tttatcatca aatcttattc gaagcccccga gaattgattg 240
ccattcatgt atcctccacc attgagtcgt gagcccgccg aattgattgc ctagtggtgt 300
tcgtgcatcc tccaccatct tattcgtagc cccatgaatt gattgttggt cagcgcctct 360
ccaccattga gtccgaagcc ttacgaattg actgccgagc tctgttca 408

<210> 18801

<211> 372

<212> DNA

<213> Glycine max

<400> 18801

agctttgaaa ttttttaa at gctattaact cttcactcgg atgtccgatt caggagtatc 60
acatattgag acgctcgaaa ttgaacaacg gaagctctcg agaaattgaa atggccataa 120
cttttcactc ggatgtccga gtcaggtgca tcacatatcg agacgctcga gattgaacga 180
cgggagctct caagaaattc aaatgggtcat aacttttcac tcggagggtca aatccacgcg 240
cctcacatat ccagargctc gaaattgaac aacggaagct ctgcagagat tgacatgcta 300
ataaactttg actcggatgg tcaattgatg cgcatacat atcgagacgc tccatattga 360
acaaccgaag ct 372

<210> 18802

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18802

agcttgtttt gttgaaccac ctaattactt angattgaag gtggttgat cactatcctt 60
cgctcatgtt aaacaaggaa agctggatgc aagggttgca aagtgtgtgt tcattggcta 120
tcctaaagaa gttaaaggtt acaagctatg gaaattgaaa cctggtgaga caagatgcat 180
cattagtagg gatgtaacct ttgatgagag cagaatggca atgctaagca aggagctgaa 240

ggataacagc tcaagtagtg agagtaccaa atttgacgtg gagcattcta agatttcaga 300
 tcatggcagt ggagatgcta ttgatcacac tgattaagca gaaactggag ataatagaaga 360
 gctggctact cagcatgac 379

<210> 18803
 <211> 339
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18803

tggtgctgat gccgcacggn ctgatgatct cattcaatgt atgtgtttca tacgtcaagt 60
 tcccttggtt gtattgtatg attcaggtgc gactcattca tttatttctc gtgtctgtgt 120
 tgaaaaactt gccttgctg tgtcttcctt gaaattttac ttgattgtga atacacctgc 180
 tagtgggtct gttntaactt ctgatgtgtg tttgcaatgt catgtcttaa tttctgatag 240
 acaatttctt attgacttag ttgttctacc tttgagtcag attgatgtta ttcttggtat 300
 ggactggtta tcttccaatc atgtcttatt aaattgttnt gagaaatctg ttggctttct 360
 tgagtctggt gtgagtgaaa gtgatatgt 389

<210> 18804
 <211> 454
 <212> DNA
 <213> Glycine max
 <400> 18804

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 taaggaattt ttttagaatt atttaattcg agtaataatt tttttgtag aatgaagtat 120
 caatgtctag ttttaagtta atagtgttag caaatagatt tatttatttt tatcattcac 180
 aaaatattta attgaagtaa taattgtttt tttagataaa aaattaatat gtgaagttaa 240
 agcgtattaa tttttgtaat taggtttttt actttgaagt ttttttaatt atgtttaatt 300
 atttacaagc cttacaaata tttacctgat tcccttctag ttttttgaag ttagaatgaa 360
 atttgaatct atattttaag ttaaagtttag tagatgaagc aaccaaatac agttatttat 420
 ttaaaaaacta ctcttggtat gattaattat tttt 454

<210> 18805
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18805

tgcagccggg atccctaagt caccgggget gcagcttagc attgatngnn ccattgcttct 60
 catttgatgc tccccttata tctaacaatc tccccctttt ggctttgatg atgccaacct 120
 ttaactatga cattgagtgc attggagagt attgagatgg attggaaaca tgatcttatt 180
 aacacttaat aaaggattaa ttcattcatga ttgatgcaac cctaccccc aagggcattg 240
 gatagaagac tccaagaaga ttgngccaga caggcaagag aaggccctag ggttcttatg 300
 agcttttaggg tagaatttgg gcccatgggc taagtatgag cccacttatc tttgtacata 360
 ttagattang atttcattat ttttgggcct tgtatttang gttctataat 410

<210> 18806
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18806

nggttaacaa tatcctttat ataataataa tggttaattaa tatcttanaa atactagtta 60
 atgaacttaa agttgaaata cggaagataa acaattacaa tgttcatatt ttttatgatt 120
 tatgcattta atattcttat tcttttaatt ccttaactaa tatctagaag cgctaattaa 180
 caagaacat ataagtaaac caatgagtaa ctaacaatcc cgttataaaa aaaaaggtta 240
 tcattcatgac ttttttggac taatcatatc atcctatgat ttcattcgac aaataataaa 300
 gttaaaaaatg aattgaaatt aaaatacata ggaccgaaaa ggagttatga gttaatatat 360
 ttaattaaga cacatatctg ttaacaaaat tgatacagca tgaatgaata atgcgtctca 420
 gcgaacaaaa tcttgatggt t 441

<210> 18807
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18807

agctttagc attatgcana ccattantaa ctttttagctc gganatccga nggagnnccc 60
gaatatatca agaccctcaa aatgaatata aaagctctta acaaataaaa cgaacataaa 120
ctttctacac ggatgtccga ttgggcaacg taacatatcg actcgctcga aactgaatac 180
caaagctgag agcaaattca aacaacaatg acctttacct cggatatecc attgagcccc 240
ataatatatc gagacgttcg aaattgaata gagaagctgt gagacaattc taacgacaat 300
aactttttac tcggatgttc gattgagtcc cgtaatatat cgagacgttc gaaatttata 360
acggaagctc gtagcaaatt caaacgacaa taactttgaa cttgga 406

<210> 18808
<211> 418
<212> DNA
<213> Glycine max
<400> 18808

actcttctga ctcatgatgt agatccatgt ctttcttgag tattcatcaa ttatggacaa 60
aaaatacctt ccaccaccta tagaagatac tcttgcaggc ccccgatagt caagatgaat 120
gtaatcaaga gtctctttga ggggtgtgaat tgctttatga tattaatatcc tatgttgcta 180
gccatataca cagtgtctgac ataatttcag ttcattcaat ctttgatttc ccaacagttg 240
ctgtttttga agtatcatca taccttcttc agtcatatgt cctagcctca tgtaccacaa 300
ttgagtttag tcaggatgac ccttattgga tcttgatgga acagttacta taccatcatc 360
aatacatgtt gtaccttgaa gtatatagag attacccttc tttataccct tcatcacc 418

<210> 18809
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18809

ttagcttcaa gactaatggc cttagcaaac ttcttattcc caaaaggaaa ttcaatanat 60
aggcctccta tttttaatgg agagggttac cactactgga aaacccgaat gcaaattttc 120
attaaggcaa tagacttaaa catttgggaa tccatagaag ttagacctta tgtaccacc 180

atggtggcta gaaatgcaac aatagagaaa cctagagaat agtcgactga agatgaaaga 240
agattagtgc agtacaattt aaaggctaaa aacatcatta cttctgccct aagaatggat 300
gaatatnta nggtttcaaa ttgtangagt gctaaggata tgtgggacac tctacaagtt 360
acacatgaag gaacaactga tgttaaacga tctangatan atactttaac tcatgagtat 420

<210> 18810
<211> 440
<212> DNA
<213> Glycine max

<400> 18810

tctgggacgc ttactctgga tacaactaga tcatgatgct cgctccagat gaggagaaaa 60
cgacattcgt cactaaaagt accaattttt gttacaaggt catgcccttc ggccttaaaa 120
atgtaggcgc tacataccaa cgattgatgg accaagtctt taaaacaatag attggacgaa 180
acaatcaaggt atatttggat gacatgggtg tcaagtctca aagcatagtc caacaagtgg 240
tagacctgga agaagtcttt ggggaactcc gtaaatatga catgtacctc aaccctaaaa 300
aatgtacttt taagggtggc ggaggcaagt ttctcggtt catgatcact caccagggga 360
ttgaagccaa cctcgacaaa tgcactacca tactagagat gtgtttcccg accaacgtcc 420
aagaagtcca taaactgaac 440

<210> 18811
<211> 391
<212> DNA
<213> Glycine max

<400> 18811

attgaattat ttaacatgcc caaaataagt tctctaattc ttatgaatct ttataattgc 60
atattacata atggagaccg gataaactat atatgaattt gcaatttatt atgtctattt 120
cttcttacta atatagcaat atacctaaat ttcttcttga aaaaattagt gcatgacaca 180
ttaatctcca atactacaga aatattattg tatttagttc ttaatatcat aaattgcagt 240
catataaaac atggtacact ttacgtttca aaatgactaa tataaccaat atttgattgt 300
ttttaagat taacgtgaga gtttatatgt ttaaggatta acgttttata acaatagata 360
tggctgctcg gcggttactc tatgtcttaa c 391

<210> 18812
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18812

tcatgttttt ggtatgtacg cgaaggactc caagttttcc aatttcacca ggaacaccaa 60
 tatcaatttc actatcaaat ctaccagaca ttttcaatgc aggggtcaatg ctatttggtc 120
 gatttgtagg cagtggcagt gaaattaacc tcaactatat accaaaggat atccacctca 180
 tatgccgctt ggggctataa tctacacata aaggcacaac taaaaatcta ttgaggacca 240
 cgtagagaaa ctaaagccac caataagtgt aaaatgctca gatcaaagat agcccaccaa 300
 taaaaatgag atttttatta tatatgtatg caaaattatg aaaggaaagg tatatttggt 360
 tgataatcct agctgtcaag gaattacttt ntataaccat tagattaaaa aaataagagg 420
 tgatataagg agtaacaaat ttgtctagat ataaaaatat 460

<210> 18813
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18813

acaaccggcc agaccctgga gaacaatcta gntcacactc caataataag ggcacctgac 60
 tggagtaaag agtttgagct catgtacaac gctagtgact atgcagtagg ggtagttctt 120
 ggacaatgga gagagaatgc attccatgcc atttttatgc tagcaagatc ctgaatgatg 180
 cacaactaaa ttatgcaact actaagaagg agatgttggc cattgtgtat gccttataga 240
 agatccgagc gcaacttaatg ggctccagag tcattatctc tactgatcat gcatcaatca 300
 tatacctttt cac 313

<210> 18814
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18814

acttctccaa cccttgacct gacttcttgg aaagcctttt cacagcaaac tctgggccaat 60
 ccttcagtct tccctgctaa ccaaattggt agaaatattt tgagtttagga aaacaaacat 120
 ctatagttgg ttttccatat caccttgtac acaggtccaa agccaccttc tccaatttg 180
 ttactctcag cgaagtcttc agtggctctt tctatgatgg ggaaatcaaa tgtggacaaa 240
 tcaatgcctt ctttctcag ttttcttctg aaagggttc tctaatattt ctttctcag 300
 cctgataggt ttgaagataa caatagagaa gcactatgac actcacaatg tgcacgtatg 360
 atacataaac ctactatcat atattag 387

<210> 18815
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18815
 tcaagaataa tggcctcagc aaacttctta tcccataag gaaactctat aaataggcct 60
 cctattttta atggagaggg ttaccactac tggaaaactc gaatgcacaa tttcattgag 120
 gcaatagatt taaacatttg ggaagccata gaagttggac cttatgtacc caccatgggtg 180
 gctggtaata caataataga gaaacctata gaagagtggg tggaagatga aagaagatta 240
 gtgcagtaca atttaaaggc taaaaacatt attacttctg cccttggaat ggatgaatat 300
 tttagggttt caaattgtaa gagtgataag gatatgtggg aactctaca agttacacat 360
 gaggggaaca ctgatgttca aagatctagg ataaatactc ttactcatga gtatgaa 417

<210> 18816
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 18816
 taacaagatt tcggtgctga agtttagcaa tcagtttgac ttcattcttg aactctgtca 60
 ttccttgtcc cgagcctctt gagagcctct tcacagcaat ttcttgtcca cttactaatc 120
 ttccctacaa aataaataaa taaattggaa taatcttaat cacattgaca ctttttgagg 180
 tctttttcct aaaacgacaa agaagattga atcaccttgt atactgggtcc aaaaccacct 240
 tctccaatct tggtgtttat tgagaagtta tcagtggcaa tgactattgt tgaaaggcca 300

agtaagggga gatcgatatt ttcttcactt cctcccctat tttgatcacg tacaatatct 360
gaatactctg ataaaaatgga acaatggcctt caatttagtt aaaggcaciaa tgtatatgat 420
agtttagtca agtcaataac tttgcagcat tacatctttg 460

<210> 18817
<211> 418
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18817

agcttgatgt ctttagactg aattaactcc ctgatgnaaa tggggctctat gtcaatgtgc 60
ttggatcatt cgtgggtcgt atgggttgag gcaaggctta caacaaattt attatcaciaa 120
aacaatatca cagaggacac atcaatttca aagtgaagaa gtaacctttt caaccaaaca 180
acttcactag taacaaaaga caaagcaciaa tattcagcct cagtggaciaa tttagaaaca 240
attgattgtt tcttagaatg ccaagagaga acgttgtttc ctacaaatac acaaaagcca 300
gaagtggacc ttctggtatc aacacagcta gcccaatcag catcagtaaa ggcaatgagt 360
ttgagagagc tctgagcagg anaaaataag ccttgtccgg gagcatattt gagatact 418

<210> 18818
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18818

actcaagctt actaaaacag gagcatatct cttctcagat cctactctat atatatcagt 60
agttggagct ctccaatact ccaccataac cagaactgag ctaagttttg ctgtaaaciaa 120
agtctgtcaa ttcatggtca tactcttgaa actcactgag cagtagtgaa aagaattctc 180
aagtatctaa aaggctcttt acaccatggc ctactttctca nagctgctac tccaggaatt 240
accatttcta ttaaggccct atgtgatgca gattngcctt ctaacctga tgatcacaga 300
tctactttag gagctgctat ttatttttgt cctaacctta tatcttggtg gtctaagaaa 360
caacagattg ttgcaaggct aagtactgaa gctgagtatc gaaacctatc tcaagctaca 420
actgaagtag tgtggatnta ttagaattct aacagtatca taga 464

<210> 18819
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18819

latcaacatc aaactlggag aaagagttct tctgggtcag acatgagaag caatcaagta 60
 taatgttact tccttcaacta aagcgggtgat ccctctccac acatatttta tcaatagcaa 120
 cataaaaaat ctctggacgg tcatgatgaa gattagtgat agtcctccct tctgctcttg 180
 aacgaccccg aactggtata tcgtcatcca tatttggtac cagaatactt ttagcaacac 240
 aaaatccttg gacatcggca aaaaaattat tccagccact ctctctcatt gtgccaacc 300
 gagctttgca acatcaacta attccatggc attcacaata ttaagatctt ntcttcgcaa 360
 tatatctgaa agctcgtttg tttgctatga cctgtatcac gcacaa 406

<210> 18820
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18820

tatacattta gttaaacttc atatataact ntaaacatta tggcatataa gatgattttt 60
 gaatatcggt aatggaatac aatcttactt aaaatggata aaattattat agaagatatt 120
 tataaattaa tagggatttg ggattcatga ctaactatca gtattattta ggacgtattt 180
 cactctatgg agtgaaaaaa attatgtaaa atgagaagta attatggatg tgtctattat 240
 taatataaat aaaatctcct ataaacagaa tccaattaaa ttaaaaaaaaa taaaataaat 300
 gcacctttct tttcactctg tacgcgcttc tcacctttta cagcaaaata gaaaatctaa 360
 aattaattta ggttgaaagt agtagttcta atttaaattc agtgatatct aaagtgataa 420
 agttaatctg tcgcttacct 440

<210> 18821
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18821

nttaactgaa tttgcaacgt tctaattggt ttttaaattgg tgtaatcgat tacaatatat 60
tggtaatcga ttaccagtgt atctgaacgt tgaaattcaa attcaattgt gaagagtcac 120
atcttttcat aaaattatgt gtgtaattga ttacatgggt ttggtaatcg attaccagtgt 180
acaagttttg aataaaaaatc aagagatata actcttccaa tggttttcag gtttttca 240
aggttataac tcttccaatg gtttttcttg accagacatg aggagtctat aaaagcaaga 300
ccttgacttg aatttcaata actntatata tatactttta catcctttga atctctttga 360
acatcttttt gaacttcttc ttcttcttct tcttttgcca aaagctttct gagttttctg 420
gtttccaaac cttgttcttt 440

<210> 18822
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18822

agcttgacag gtccagggtgc ggttgctgct actgggtggag ggacttcaat ttgcttgcca 60
gacctcaagg tgatggcact cacattcttc ggattntgca ccatttgtga aggcaatttg 120
tcagaatttt gggactgagc ttggttcaac tgagtagcca tctgccccat ctgatttatc 180
agactctaaa tagaggctct tgtctctntc tgaaattgca tattctggat agtcatttgc 240
ctcactaact cctctaagga aggttgagaa aagggectca gttgcttggt gtctttgttg 300
gtggtgctgc attggaggag gaacatatgg cctgcttgga ccaacaacat tctggaaggg 360
agggacaggc t 371

<210> 18823
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18823

tccctttctt tggccaatgc tggactcgtt tggcagtgat ttccttgga atctgatgct 60
cagaaacatc aatatccacc actccttcag taggtctgcc caggtatttg ttgatcaccg 120

caggggagaa tctaacacac tttcctctga caaacactct ttgataatca tcactttttc 180
 tgtttgttat gtcagaggga atgttgacaa taaattccct gactaggctt tcataacagt 240
 ctcccaactt ggtgactggt ttcagtagtc cagcagcctt gatgagttcc atgggtctct 300
 tgcaatccaa ggcatttctt cccagttctc ttccaagga aagtctgcgt tgatacacgt 360
 atttccacct ttcagcattg ccaatggagt ggaatgagat gttgtccaat ygtgcacaa 420
 ggacattntc aggcaccttt ttcccagatt tcttggt 457

<210> 18824
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18824

ctaagctgag tcacattggg gggtccagtt aaacctgcgc tgtgtatata cctcattatc 60
 aattggccta gtatcaacaa cgttatcaac tgtttgaatg cctccaaaa gagttggttg 120
 anaactatca ttacttgaag gcagatattt atacacgact aataatccaa gagtgaatat 180
 agcttgcagc ttcgtagagt ccccttgaac tgagaagaat atgagcatgg cacgtatgaa 240
 cagatccaca cagagacgca tgatgcatat tacagtgtct attaacctcc catcgttgcc 300
 tgcggggaag ccacgaactc gatacacaaa cagagtattg tacttgtcaa ccacatatct 360
 atacccaaaa taaatggcac caacaggaac cacaatggga ttaaatgaac agtatactag 420
 agtcagggct aatattgtca aattaaaggc gtaatactgt gc 462

<210> 18825
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18825

taggattaaa gttcagaaac ttaagagccc aacaagcttt atgctctagc tctatgggta 60
 ggtgacaatt ttatcaaaca caagtctata aggagacata ccaatgagag ttttaaatgt 120
 tgtcctataa gcccaaagtg catcatctag ttttaattgcc caatctttcc tagatgcact 180
 aactgttttt tcaagaatta tttttaactc gctattggac aattctatct ggccactagt 240

ttgtgggtga tatgggggtg caagcttttg agtcacccat atttagccaa gaggccatca 300
tacaacttat tacagaagtc agtgcctttg tctaataatga tngctcgagg tgtgctaaat 360
ctggtgaann atattttctt tgaaactttt ttaccaccag agaatcatta atg 413

<210> 18826
<211> 399
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18826

agcttagtcc tcgtccacca gngacctgaa ttgaatataa gaacatcaga atcaatccac 60
tcgtggctaa tatcatcaat cttgtccaat ctcagtgcag tcttcaccct ttggggagca 120
tgtctaggca cagaaccagg cctcaccagg aacactgatc gataaaaatc gattctaaca 180
tcaaaagtac taaacctcac acctaanaac cttatctgtt ttgtgatctt gttgcctttg 240
atttcataga cactcttctt atcctcaact cctgtcatta gcaaacatat catggactcc 300
cattgcgctc tactcaaaga atcgccgacg aanaccaccc ttttcccacg aagtcgttcg 360
agtattccac ggacatcaaa ccttgggaatc tcacagttc 399

<210> 18827
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18827

tctctaagct tctcatccga gacactctct tgggtggtgaa acttcttctt caatggctta 60
ttccctaata gatggtgtct catctcacct tttctccttt atcttacgtt acaacttcat 120
ggctgaaaat caccattgaa ggacctcact gaagctcaaa gattcagcct ccatagaatc 180
ttctcaagca agcttccatc aaaaagtact gaacacaact tgctatgttc aaaacagaat 240
attgataaga ccattgataa aaaaaactcc ttatgaacta tagagtggaa gaagacctaa 300
tatttcatac tttcatcgat ttggatgtga gtattttata ctgaacacta gatatcaact 360
tgcaaagttt ggttcanagg tggataaaat aatcttcttc gaatgctcta acacatctaa 420
agcatacaaa gtgtttaact caagaacttt 450

<210> 18828
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 18828

catcatacca cctccagggtg ctggaactac ttcacatgtt ccttgatggy gctatacca 60
 attaagagcc ttggatgaaa gaggtatgcc tatgtcttcc acaacagagt cacacttaga 120
 agacggactc ctacctctcc gtattaaatc atgaaaggga agaagccaac tgtcaagctc 180
 tttcacatct ttgagaagtc cctgttacac tttggcgaat caagatctaa tgaaaaagat 240
 ggatcccaac agtgaagctg gactattcct gggatactct acctacagca gagcatatag 300
 agtatacaat tccataacca tagcagcgat ggaatccatc aatgtggttg ctgatgatct 360
 gtctcca 367

<210> 18829
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 18829

taatggcctc attagtctca gtcttaggtc caacagcttg aggtggaacc ttccaactga 60
 cctactttcc ctcccttccc tgcgctttgt atatctccaa cacaacaact tctcaggtgt 120
 tattcctgat tctctgccac cacggcttat ctttcttgat ttgtcccata actcttttac 180
 aggacaaatt ccagcctcaa tccaaaactt gacacatctg ataggattta acctccaaaa 240
 caactctctc acaggaccta ttcctgatgt taaccttctt agccttaagg atttggattt 300
 gagcttcaac tacttgaatg gatctattcc ttcaggtctc cataagtttc ctgcctcctc 360
 atttagaggg aatttgatgt tatgtggagc acctttgaaa caatgttctt cagtttcccc 420
 taataccaca ttgtctccac caaca 445

<210> 18830
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 18830

tgtgggttttc tcacagatag gacatgcatg atgccttttc acactgtatc cacttaaatt 60
 tccatattgct ggaaaatcgt taatagtaca aaacaccatg gcgcgtaacc tgaacatctg 120
 ttgcacattt gcatcccacg catctaccct ttcttcccac aattttttca aatcttcaat 180
 taacggacta agatacacat caatatcatt ctccgggttgc cttggaccgg cgatcatcat 240
 acacaagata atgtattttt gcaaaatata caaccagggg gaagatttga aatcatcat 300
 aaaacaggcc acaaactgtg gttgttgctt aagctgccat aaggattcat tccatcagaa 360
 gcaagagcaa gccttaagtt ccttggctcg tccccaaact ctggatacaa atgatcaatt 420
 gtcttccact gtggagaat 439

<210> 18831
 <211> 461
 <212> DNA
 <213> Glycine max
 <400> 18831

tctcttgatt cttgaatctt cttgatttct tctcatgaaa cttgaaattt atcttgatct 60
 tgaacttggt gactaaatct tgaaatcatt ctttgggggt tttgtcgtca tcttagtcat 120
 catcaaaact tcttgaatca acttgattca tcatcatgaa gcttgcttct acacttaacc 180
 cccaagacca aaaaccaact agcctgagag gctaggaaaa aagagccacc agtccctcta 240
 aaagagcccc catatccttt agttccatca aagaagaata aggagcacta cttcaagtgt 300
 ttattggaga tattcaaggg gttggagata accatgccat ttggggaagc cttacagcag 360
 atgctgctct acaccaaatt catgaaggac atcttcacca agaaggggaa gtacattgac 420
 agtgaaagca ttgtggtggg aggcaactgc aatgcagtga t 461

<210> 18832
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18832

agcttgccgc ttctgagnna nactactatg tttcttgngn ggnggaacaa gctacaaaag 60
 gatagagcaa gaaatgaata gccaatggtt gatacatgga cggagatgag aaagatcatg 120

aggaagcggg atgtgccggc tagatactgc aaggacttga aattcactct ccgaaatcta 180
 acaccatgca acaaggaggt tgaggagtat ttcaaggaaa tggatgtgct gatgattcaa 240
 gcaaataattg actaagatga cgaggcaact atggctcgac ttattaatgg tttgactaat 300
 gatatactg atacttgtga gctgcatgag tatgttgaca tggatgatct gcttcacaaa 360
 gcaa 564

<210> 18833
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18833

ctcacaactt tccccaaaaa gaagtttaaa gatgtgggaa gccttcatcc accttgtggc 60
 atggtataaa agtgtgccat cttgctaata caccaccata nagatagagt ctacacctct 120
 ttgggttcta tgaagcccaa tgacaaagtc cataactaatg tctacccaag gtgcanatgg 180
 aatgggtaag ggtgtgtata gcccatgagg catcacccta gacttggctc gtaaacaagc 240
 cccactccta gtgcaatgct tatggacatc tttcttcata tggngccaat aaaacttctc 300
 tttgagtaag acaagggtct tgtctatc 328

<210> 18834
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18834

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 tttggggagt agtgggacca cagagaatgt ttaccaagga tgggatttac cctgngatga 120
 attggttttt cctgattggc ctacttgctc ctgttccagt gtggctgctt gctcgcanat 180
 tccccaaacca taagtggatt gagctcatca atatgccctt aatcattgct ggtgggtgtg 240
 gcacccacc agccagatcc gtcaactaca taacttgccg atttgtggga atcttcttca 300
 atttctacgt ttacagcaag ttcaaggcat ggtgggctag acacacttac atcctctcag 360
 ctgctttaga tgctggtgtt gctttcatgg gtgtcattct ctattgtgcc cttcagaatt 420

atggtgtttt tggccaata tg

442

<210> 18835

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18835

ttttgcttat agattccttt gctttttttg cttagacttga agctataaga atcatgcttt 60

ccttttgctac tcataaaaat ataaagttat ttcaaattga cgtaaagt gctttcttaa 120

atggctttat tgaagaggaa atatattgtca aacaacctct tgggtttgaa gatcatactc 180

ttccagacca tgctttcaaa cttaaaaaag ctntgtatgg tctaaaacag gaaccacatn 240

gctggtgtga cagactgagt tcattttctct tagaaatggg tntattaaag tcaaagtgga 300

tacaactctt tctaaatgag aaagtggcan agatttcatt atagttcaaa tntatgttga 360

tgatagtatn tttgaagcta ctaatgaatc tctt 394

<210> 18836

<211> 428

<212> DNA

<213> Glycine max

<400> 18836

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agagaaaaat tgtaaatttt tagtctctca tttatatata taacacaatt tcatacaaga 120

gaaattaaaa agacattgat ttatttctga aggattggaa gctaacattg tcttgtacta 180

aaactatatt tgacaccttt tattgcatga tcgctttctc taatatagaa tctaagttag 240

tgtattggtt tagtgcaggt tctgagtgat cccagaaga gagcaatcta tgatgaatac 300

ggagaagaag ggcttaaagg gcaagtgcc cctccagatg ccggtggcca tacattcttc 360

caaactggag atgtgccaac aacgttcagg ttcaatccaa gaaacgcaga tgacatcttt 420

gctgagtt 428

<210> 18837

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 18837

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gtggatatat gtttttcatg ggaaatacaa ccttcacttg gatgtcaaaa aagtagtcga 120
tataagtca ttcttttgac ttgtaagcca aaatacctag cagttccttc atgcattgt 180
catgcaatat ggctcaagaa tttgttaaaa gagttgggca tgtcacaaga agagttacca 240
agatctttgt cgataattaa taagtcagtc attgctctag caaagaatcc aatgttccat 300
gatcgaagca nacatattga taccggttac cactacataa aggagagcac aacaagaaag 360
gatgtacatg cangatatgt gaagtctcaa gaccaagtag ttgacatc 408

<210> 18838
<211> 306
<212> DNA
<213> Glycine max
<400> 18838

agataaatag taaaaaagtg ttttaaaaca ttgagtagca caagaatttt tcacaaaatc 60
ttttaccaa gagttctact ctctggtaat cgattaccag aaggtagtaa tcgattacca 120
atagccaaca ttgtttttaa aactgattta caaagttgta atcgattacc atgagcatgt 180
aatcgattac caatatttta aagcgtaga tatcaaagt cagaagtcac agatagtgat 240
agaacatttt caaaacagtt taaacttggtg taagcgatta cacaatactt gtaatcgaat 300
accagt 306

<210> 18839
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18839

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tcagtaattt cattgcctcc aatatcatat aaagcattta gtataatata taacaatata 120
tggtaacata tgagagttaa aagcttacia acatacgctt acaaggatcat ttcatatatc 180
acaaaattga agataacatt caatgggtca tcatcaaagt ttgcatcata ttaatataca 240

cattttgaat aggcaacact tgctctcag tcaaaatgca ttttcagcaa ttggatgtta 300
tctctaaaaa agttaagatt gtatcagact tagtagcaca ttcagcagca tgacaaaaga 360
cacaggataa ataatgcacc atangatcaa taccaaactg gaagagataa cttctcagtt 420
ttaaagggtga acactattat aat 443

<210> 18840
<211> 406
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18840

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tggtcataag ttttaactcg gatgtccgat teaggagctt cacatatcga gatgcacgaa 120
attgaacaat ggaagctcta gagaaattct aatggtcata aattttcaca cggaggctct 180
attcaggcgc ttaatatatc cagacgctcg aaattgaaca atggaagctc tcgagatatt 240
caaatgggtca taacttttca ctcggatgtc cgattcaggt gtatcacata tccagacgct 300
cggaatngat tagcgggaagc tctagagaaa ttcacatggg cataactttt cacacggatg 360
tcctattcaa gcgcttaata tatcgagacg ctcgaaattt gacaac 406

<210> 18841
<211> 343
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18841

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ttgaatcttc catttcttat ctatggctct gaacacttac gaagtctacc agtggatatg 120
taatcatgtg tatgcaattg actagatgaa actagaagga atttggtaga ttggcctaaa 180
cgatttaaca ttatttgtgg cattgctcga ggacttcttt atctncatga agattctaga 240
atgaggattg tacatagaga tctgaaaacc tagcacattt tactagatga aaatttcaat 300
ccanaaatat cagacttttg cttagcacga gcattcttgg gag 343

<210> 18842
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 18842

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 cttgcgaaac aaagtcaggt tagcgataac tcgcttgtgc ttttcttcc atgctatatg 120
 tagcaaagtc cttgatctag tcaagtttga tgagttggaa aatgaggccg caattatact 180
 gtgccagttg gagatgtatt tcccccccg ctttcttga catcatgatt cacttgatta 240
 tgcactctggc cagagaaatc aaatgttgtg gtctctgtta tctacggtgg atgtaccag 300
 ttgagcgata catgaagatc ttacaagggc atacaaagaa tctatatcgt ccagaagcat 360
 ctattgttga gaggtacatt gcagaagaag ccacttgaat tttgtcataa tacttacag 419

<210> 18843
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18843

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 tatgatagtt gtcacacctc tgaacatatt cataagcatc cttgtgcaag gtaagccaat 120
 aaaaactaga ttgaaggacc ttggcagtag tctctctcc atcgtaattg ctttcacaat 180
 gtgaactatg gcaatgccac aatatgcttc ttgcctcccc ctaagttaca catcttctca 240
 agagattatc tgctccaatt ttataaagat tgggatcccc ccacacaaaa tatttagtgt 300
 ccttgacaaa cttctttttt tggaccaagt gagatcatca ngaaatgcac caattgcttt 360
 gacactagtc atctcagcag accatggcct tctacaatg 399

<210> 18844
 <211> 251
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18844

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ttggtgcatg gatngagatc ccacattgac tatagatatg gctaaagtag aaattataaa 120
ggctggggaa atcctcacct catgaagcta gctttggagt ttgagtcaag cttatctcan 180
attcaagatg gtatcagagc ctatcataaa ttcgatattg ggccaccctc aactgtccaa 240
aaatctacat g 251

<210> 18845
<211> 444
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18845

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agacgttgat gaactttggt taagataaat tgaaaagtat tcctagaagc tatcttatga 120
aagatagaca ctccaaggta ctttccaaga tccttagtcc aagcaatacc catttctcca 180
cttagttgat ccttgacttg agtctccaca tttttggaaa agaacattca agatttctcc 240
aagctaattt tctgcttaga actcttgcaa aataaattca aaatattctt gatagaatgg 300
acctgctcca ctaaagcctt cataaataaa ataaggctgt atgcaaaggc taagtgagat 360
ataagtggac catgtctaaa aagacgaata gggcaccaca ctctntggtc cacaacaaca 420
gagatcaatt gaaacatatg ttca 444

<210> 18846
<211> 426
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18846

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acaacatttg ttcaattgca gaaagtcag acttcagctc cagtgttagc tcttcctaatt 120
ttccagctgc ctttcattct ggaaactaat gcttccgaca ctggtattgg agtagtatta 180
catcagaatg gccatccaat agcatttttt tccaagaaac ttgcacctag agtgcaaaag 240
aaatctgact aatttagaga gatgttagca attgttgaag ctatagctaa gttcagacac 300
tacttgctgg gacacaaatt tattatcaaa actgatcaca attagtcaga tgatgatgtt 360

gatggatgga acaaccgcta cagacacctg aacaacaaca gtggttacac aggttttttg 420

gatatg 426

<210> 18847

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18847

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ctaagctcat ctnccttgaga tgagaagctg gaacttagct acacaccccc tataatagct 120

aagctcacc ccatgacaaa atacatgaaa atacaaagaa nagtccttac taaaagact 180

actcaaaatg cctcgaaata caaggctaaa accctatact actggaatgg ccaaaataca 240

aggcctaaac gaaggaaaaa tacctattct aatatttaca aagataagcg ggctcact 300

tagcccaggg gctcanaatc taccctaagg ctcatgagaa ccctanggcc ttccttgga 360

tctctggccc aatctacctg ga 382

<210> 18848

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18848

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taggtgcac agaagctcat atcatggctg aagatcaacc acgaacgggtt actcttgaag 120

attattctag ctcgatcgtg ccacaattct tcacaagcat tgcgcggccg gaagtccagg 180

ctcagtcac cacatattct caatccttga ttcagctgat tcaaggagat ttatttcacg 240

gattgccaaa tgaagaccct tacacacact tggctactta tattgaaatc tgcaacacag 300

taaagattgt cgggtgtgcca gaagatgcag tgaagctcag tttgttctca ttttctttgg 360

ctggagaagc taagaggtgg ctacactcat ttaagggana caatttgaag acttngnatg 420

aggttgtaga gaag 434

<210> 18849
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18849

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gttcgtggat ctctcgnngg gggagtaggt gtcgccatc gctttggcct tggctagctc 120
ttcatcaatg gattcctttg catcttgga gatgaatggc aatgtaatgg agacaggaag 180
agagagagga gacgccactt cagggagaag atgagtctag aagaagctca ccaccatagg 240
aggccatgga taagagcttg gaggaagaaa gagatgaatg aagggagaag gagagaagag 300
cacganattt tgtgctctaa atgagctctg aaatctgaag tttaatattc agatgatcaa 360
agttcaaaaa aatgcacaca tatgacctct atntataccc taagtgtcac accaaattgg 420
a 421

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<210> 18850
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18850

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attttcaatt cagttcccaa caaatcctca tcattctagt tgtagtacca atgacgacga 120
caacaacaac tattggagca tggaggatat ctggatcaatg caattagcca attactgaac 180
gggaattaaa cctataaaca taaatataaa taatatatat aaacctaagt gtctaagttc 240
cataaattaa gctgtagtct ctggcttaaa acatgttagg tttgtttata caagtagttg 300
gatgtttgga gtacttcggc cttttgcgta ccatcaatat ttaagaacta agttagttat 360
gtccgtaac ttatgggctc ttaataaaact atatctgcac aaaattatat atatatc 417

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<210> 18851
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18851

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caatagaagc aagccctacg gccaacccag cagcaataac agaagcagca gaaataattg 180
gattctgat aatttctctg taacctaat ataaaataaa gaaatagtta atgatataat 240
caccCaalaa attalgaatt aatttttcaa ttacdaagat ttattcggil taaagcaatt 300
aataagaatt ccgaattgaa aataataata gttattgaac tctacgaatt acttcgagat 360
ttattttttc gtctctacct acatacatna gttttttttg tgaatatgt 409

<210> 18852
<211> 438
<212> DNA
<213> Glycine max

<400> 18852

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gtctccttta caccttggtc tagcgaggct tcatcttget cctcgaagcc attctctacg 180
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ttgttctttg tgagcatcgg cattcggaag ggaaaacctc cattcgccat cttttgagga 300
tcttgaagct ctgataccac ttgtgtggaa ataaggctct ttatgtctat gaaaagcgtt 360
taggaatatt ggagactctg aatagacact tgataggaag gagaattctt tatggaggag 420
agaactttgt acttttgc 438

<210> 18853
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18853

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taaaggcgta atagaacttt aatggatatg attaggagta tgtaaatcaa ttgacttta 120
cccgtatctt tgtggatgta tgccttgaaa actgtcatgt atttgttgaa tagggttcct 180

agtaaggcag ttccaaagac acctttaaac tgtggacaaa taggacacct agtataaggc 240
acctgcatgt ttgggggttg caggcagaaa taaggattta taatccgcaa gacataaaat 300
tggatgcaag aacaatcagt ggatatttca ttggttatcc agaaaatgaa aggggtatat 360
gttttattgt cctaatacata gtatgagact tgtcgaaact aanattgcaa gattcattga 420
aatgaataa atcagag 437

<210> 18854
<211> 370
<212> DNA
<213> Glycine max

<400> 18854

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tgatgtagag aattcgattg gatcgaaatga gtttagaccc atttctcttg tgggttgtct 120
atacaaaatt gtagctaaaa tactttctat ttgccttacg aaagtgttgc acaaggcat 180
tcatgagtga caattggctt tccttgaagg tagaaatatg ttagatggag tggttatagc 240
aaatgtgtcg aacatggatt tcctaaatta aagggtgcat tgagacctt actatgtcgg 300
ttcttgtgaa tgggagtcca actcacgagt ccaaaaacga gacgggctcg gtggtttgta 360
cgaatgccat 370

<210> 18855
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18855

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acctggetca agaacgactt tttttctgct tttgttggt tgccttgcat agctcgcat 120
ttttttttca attagagcct tcacttgctc atgcaacttc ttcacatact cagctctagc 180
ctgtgcatcc ttatgcttaa acatancaat gttaggcata ggcaacaaat caagaggagt 240
caaaggatta aatccataca ctatctcaaa tgggtgaacaa ttagatgtgc tatggacagc 300
ccgattatna ggcacactca catg 324

<210> 18856
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18856

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 aaagcaacca gcgataaaac ccaatacaga taaagcacct aaactaatag aaaagtaagc 120
 ttctccagac cataccagtg cacgccgagc ccatgcaaaa ggtttgggta agatatgcca 180
 gattccacca agtatacaaa tggaacccaa ccatacatgc cccccaatta tatcttccaa 240
 atcgcacaca ctaacaatcc acccttttcc cccaaaaggt gattttaata aatatccaaa 300
 tataatactc ggactaatgg tcacattggg tatttttctt acatctccgc ccccgagc 360
 ccacgtatca tatatnacct ccaaatanag agccttgaat actagatgaa acgcaccta 419

<210> 18857
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 18857

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 aaaaggcatt ttacaagata gtgaacatct caaacgggtt gtttggagat tagacgtacg 300
 cacagggcat gaccgaacta gtataataac tgagtttgca ttctctcttc ccttaaaatt 360
 ctcttaacta ttggtcttta tcttttgcac tacagaagtt tactttgaat t 411

<210> 18858
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18858

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ggaagcctct tctgaattag gaatcaagat actaagagat cgctcttaag gtatectaag 120
 gttttcacaa gagagttata tcgataaggt cctaaataga ttcgacatga aagatagtaa 180
 accaggagat accctgatag ctaaaggaga caaatttatt ctcaaacaat gtcccaataa 240
 tgaccttgaa agaatagaga tgcaaaagat tccttatgca tcaacagtag gaagtetaat 300
 gtacgctcaa gtttgcactc gtnccgatat agcatttcta gtaggaaglc tgggcagata 360
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<210> 18859
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18859

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 ggagcctaag gggaaagaag ttgcaaaggt agtgctcatg ccttcttttt ggaatagtgt 180
 ggtttacact cttaaagtca tggctccact tgtcaaagtg attcttcttg tggatggtga 240
 aaggaaacca gccatgggct atatttatga agcaatggac aaggaaaaag aaacaattat 300
 caagtctttc aacgacaatg aaagcaagta caaagatgtg tttgcaatca ttgataaana 360
 gatggaattg tcagcttcat aggccattgc atgcatctac ccacttctta 410

<210> 18860
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18860

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 cttttaactc agatgtctga ttcaggcgca taatatatcg agacgctcta nattgaacaa 180
 cggaagctct caagtaattc aaatggatcat aacttttcac tccggaggtcc gattcangcg 240
 cataatatat caagtcgctc gaaattgaac aacggaagct ctcgagaaat tccaatggcc 300

atcttttcac tcgnggtcc gatttaggcg cataatat cgagacgctc ganaatgaat 360
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<210> 18861
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18861

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gtcagattgg gaatgcctct aacagcacct ttgtcaatga ttttcttcat gcctcttaag 120
tgcagatgtc caaatctttg atgccatatt ttgaattcat cttctttgga gaatagacat 180
gtggaggagt aactggtttc ttgagggtgc cataggtaac agttgtcctt tgatctgctg 240
cccttcatta ggacttcact cttctcattt gtcaccaagc attctgactt tgtgaagttt 300
acattgaatc cttcatcaca caactgactg atgctgatca agttcgcagt cagtcccttc 360
accagcagta ctttgttcag actaggaagt ccatcatgga ctagctntcc cattccagtg 420
atctttcctt tagagccatc t 441

<210> 18862
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18862

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caagagagct atatcaataa agtacttgat agattcgaca tgaaagatag taaaccaggc 120
gataccccaa tagctaaagg agacaaattt agtctcaaac aatgccccaa taatgacctt 180
gaaagaactg agatgcagaa gattccctat gcgtcgtagt agcaagtctg atgtatgctt 240
aagtttgtac tcatcccgac atagcatttg tcgtaggagt tctgggcaaa tacttgagta 300
atcctggatt gcagcattgg aaggcagtga aacgcgtaat gcgttacttg aagagaacaa 360
aaggctacat gtcacttat tagaagtntg acaatntgga gatcatcggg tactcagact 420
ctga 424

<210> 18863
 <211> 440
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18863

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 tctcaaaata aaaggtgaga ttgttttagca acttatgaac ttgaaaattt tgagtttttg 120
 ttaagtacga ctatttggtg tgtcatatta tttcatgtaa actccattag taaaaagtta 180
 caatcaaaag atatgggtat gtatgttgct atagaacaat tgaaaggtct tattttcttt 240
 tttgaaaaat atagagaaga ttgatttgaa aatgctataa tttctgctaa agaaattggt 300
 attgaaatag atatagaacc taagcttttt gaaaaatgtg ttattcatag aaagaaaaac 360
 aatttgatga gaatattgat aataaagttg taaaattgcc taaagaatca tttanaattg 420
 attacttctt gtatataata 440

<210> 18864
 <211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18864

gcttgtgcta tttctagttc atataccata cctttaagcc aaaatgcttc cttcactcct 60
 tcaactaggg cccttgattc tgctttaata aatgaaagaa caaccactga atggtgaatt 120
 gctttccaac taattggtat acccaacaaa agaaatacat atccggtaaa gactttcttg 180
 tacctacatt ttctacaaaa tctgcatcta catagcctgt gattgctgcc tcatgtgttg 240
 tcttcttgta ccttaatcca gcattcaaag atccatttag ataccttagt gtccacttca 300
 cagcttccca atgtgcactg ccaagatctc ccatgaatct gcttataata cttacagcat 360
 gagccaagtc aggtctgctg canaccattc catacattat gcttgcaaca ccact 415

<210> 18865
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18865

agcttctctg cacaaatatt ccgtccccta aatatatgcg taaatttaaa attaaaagta 60
tgaattttat atgtatatag tttaatcatt tttcctaag ttttcaaagc accaatatta 120
gagttgattt aaaaattttt agtactaaaa gattatctac acttatattt aaaaatgtat 180
tttaacgtaa tgtgttttaa ttttttaaatt attatagttg taataaaaaat aattacacat 240
ttattntaag tatgttattt taatgtaata tttcttaact ttttgtggt tcatnttttg 300
gtttataatg tgggttaacta ttatttgtga attttgttct tgagtcttat gtctaataaa 360
tataaaccaa ttttacctgt ttcttacaaa cattgtatct gtctcttttc ttt 413

<210> 18866
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18866

agcttctaca ttcaatttca agcttttoga tatattacgg gactcaatcg gacatccgag 60
taaaaagtta ttggagtttg aatttgcctc ggggttcggg attccatttc gagcgtctcg 120
atatattacg ggactcaatc ggacatcaga gtaaaaagtt attggtgttt gaaattgctc 180
agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatccg 240
agtaaaaagt tattgtagtt tcaatttgcg canggttcg gtattccatt tcgagcgtct 300
cgatgtatta cgggactcaa tcagacatcc gagtaanaag ttattgtcgt ttgaatttgc 360
tcagagcttc tacatttcat ntcgagcttn tcgatataatt acgggactc 409

<210> 18867
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18867

attcanacga caataacttt ttactcggat gtttgattga gtcccgtaat atatcgagac 60
gctcgaaatt gaataccgaa gcgctgagca aattcaaaca acaataactt ttactcggg 120

tgtctgattg agtcccgtaa tatatcgaaa agctcgaatg tgaatgtaga agctctgagc 180
aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtg atatctcgag 240
atgctcgaaa tggaataccg aagctctgag caaattcaaa caataataac tttttactcg 300
gatgtccgat tgagtcctcg aatatatcgg aacgctcgaa attgaatgct gaagctctga 360
gcaaaatcaa acgacaataa cacttctctc ggatgtctga ttgagtcctg taata-ctcg 420
agacgctcga aattg 435

<210> 18868
<211> 351
<212> DNA
<213> Glycine max

<400> 18868

acctcgcccc gggatctcta agtcagctgc aagctgtttt ttttcttgc taaacggcta 60
ttgtgataaa atgttgtata ataattgctct ctttttctgt gtgtaattaa ggtcctccgt 120
ccattcctcc ttcgaacggt gacctcatat gttgaaatag gtttgccacc aaaaaaggaa 180
accattctca acagtagcat gtgcgatatg cagaatcaat tttataaggc attactgcat 240
aaggatctgt acgtcgcgaa tgcacgagga gaacgtaact tcttctaaat atagcaatgc 300
tactacctaa atgttgccat caccatatac tcttacacgg tgctgaacct g 351

<210> 18869
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18869

tcattgctatt gtaaggtnnt tagcacanat tccaaatgag tgttgtgata atttcatata 60
gaactatata tcagaatgtc attaaaaaaa aaaaccaata caaacttctt caagactccc 120
cttaatatgt cattcataag acttttgaat gtagcagagg cattagttag cctaaatggc 180
ataactagtc attcataatg tccatgggtga gtcttgaaag ctattttata cctatcctca 240
ggtttcaaca aaatctggtg ataaccagac cttaagtcca acttgagaga aaattcagct 300
ccaaacagct catcaatcaa ttcatacaact gttggaatag gaaatgtatc ttttaaccgt 360
atagaattca atgtctctata gtcagtgcac accctccaag aaccatccct cttcttaacc 420

aanataattg gagaagaana tgggctctta c

451

<210> 18870
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18870

cgacaataac ttttgactcg gatgttctat ttgtcccgta gtatctcgag acgctagaaa 60
ttcaaaacag aagctattag aaaaatcaaa cgacgataac tttttacacg gatgtcccat 120
tgagtcccat aatataatcg gacgctcgaa attgaaaaca atagcactta gcaaattcaa 180
acgacaataa gttttgactc ggatgtccga ttgtgtcccg tagtatatcg agacgctcga 240
attgaaaaca gaaactgtga gcaatttcaa acgacaataa ctttatactc ggatgtccga 300
ttgagtcgag taatataatcg agtcgctcgt aaatgaaaaa agaagctttg aggaaattaa 360
gacgacaata acttttgact cggatgtccg attgtgtccc gtagtatctc gagacgctca 420
naattcaaaa c 431

<210> 18871
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18871

gagattataa taggattgta tggttnttag gtattgttta ctctcaatac catatgcagt 60
ttctcaagga ggggtggtga gtttcattct gctaattggt cttgcaatga tgttttggtg 120
cacgngtga cttctacaga ggtgtatgaa caagcatcca ctaatcaaat cttaccctga 180
cataggtgag gttgcatttg ggctaagagg aagagctatg atctctacat tcatatacat 240
agaattgttt ttagtggccg ttgagcttct gatattggaa ggcgacaatc tagannaatt 300
gtttcctcat atgaacttca naattggtag ccttagaatt gaaggtaaaa gtgggtttgt 360
ggtgctagct gctntggtca tactaccaac aacattggtg agaagttnngg agctttggct 420
atgtttctc 429

<210> 18872
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18872

agcttatgac aatttcgaaat tctcgagagc rrtcggaagat taattntgag cgtctcgata 60
 tattataagt cttaatcgga cctacgtgtg ataagttatg aaccatttga atttttgaga 120
 gattccggtt gtttaatttcg agcgtctcga tatattatgc gcctgaattt gacttgcttg 180
 tgaaagggtta tgaccatttg aatntctcaa gagcttccgt tattcaattt cgagcttctc 240
 tatatgtgat gcgcctaaat tggacatccg ggataaaagt tatgaccatt tgaatttctc 300
 anaaggttcg gtagttcaat ttcgagcadc tcgatataatt attcgctga atctgacatc 360
 cgtgtaaaaa gttatgacta ttttagttta tcgggagctt ccgttttc 408

<210> 18873
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18873

aaaaccatta aataaaagct gagtgacaaa atattaaaaa tactttaatt tatttaccaa 60
 tgcttttctt attgaaatta gtagaaaagca ctcccatat gtcagtgact tcaaaaaaat 120
 ggaaccacat aaagaaaatg agagtaattt tggatcttta tctacctata ccaattggat 180
 tgacattatt caataattta aagttactaa aaaggttcta ttcaagacct ttntccactt 240
 caatagactt ccttggtata aatataagaa aaataactga tttacatagt cgacatcggt 300
 taattatatt aatcttatta aagagtaatt ttntcaact attctgtatg gaacttntat 360
 tatgtataca aaaatcatta aactaatact tc 392

<210> 18874
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18874

agctttggtt aatttggttt gacaataact ntatacacgg atgtccggtt gagtcccgt 60
 atatatcgag acgcctcaaa tttagatccg aagctctgag aaaaattgaa ttgacaataa 120
 ctttatacac ggatgtccag ttgagtcccc taatatatcg agacgctgca nattgaaaac 180
 ggaagctcgt atgaaattca cagcacaata actntntact cggatgttcg attgaatcgg 240
 gtaatatatc gagacgctca aaattgagac tagaagctct gagcaaattg atatgacaat 300
 aactctatac acggatgtcc ggttgagtcc cgtaatatat cgagacgctc ccaattgaaa 360
 cggagactct tatgaattca aacgacaata actttttact cggatgcccg acagagtgtc 420
 gtaatttatc 430

<210> 18875
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18875

caattatgaa aattaatttt tgtgcgagat ttaatgttgt cacatgagct atacttattg 60
 gataaagtat ataagtatac tactaattac tcatacaaca tctaaattaa taaaaaagat 120
 tgcagtgcct atataataat tattagaaag atatatnaag agattaataa aaagatgtat 180
 taggttctat tgatagaggt atactaataa aaaaatacaa cgaaattcat tcagcatcgc 240
 tatttttttt ttaaatttag aagtatgaaa tgaaattaat ctcttttgca ttatacagta 300
 gaaatatata aaaaataaaa taattatttt atttatgatg gtcatttcta gtgtatttca 360
 cttaaagttt ctccattgaa atttctctta ttgattctgg atc 403

<210> 18876
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18876

agcttttatct actttgatgg aatgaatcca tatggcaatn taagcactta acacaattca 60
 tggccaattc tactagtaat ntacaaattt tccttccttg gttgtgcatg cagtgaaaat 120
 acatgatggt gtcgatgatg atatcangcc caagacagcc aggaaatgac attgatgttt 180

atctaagtcc gttgattgaa ggcctgagaa agctgtggga cgaggggggtt ctagtgtntg 240
atggggtttca gaatgagact tttctaatagc atgcaatgct gttttgtaca attaatagact 300
ttccagcata taggaatttg agcagttaca gtgttaaggg tcatcatgca tgccccatct 360
gtgaagaaga cacaagctac atacaactga nacat 395

<210> 18877
<211> 316
<212> DNA
<213> Glycine max
<400> 18877

tctgctgcc aacatacaacc tttgcccttg catgcaacta cctggagcaa gtgagcagcc 60
tgaggcttat gctgcaata tatacaatag acgctgctca agccgcagca gcagaatcta 120
ccacagcaga acagttgtga cctctgcagc aacagataca gccctgcatg gaggaatcac 180
gctaacctca tatggtccag cccttagcaa caacgacaac agcctgctcc ttacttccaa 240
aatgctgctg gccagacat accatacatt cctccaccaa tccaacaaca gcagcaaccc 300
cagaaacaac caacag 316

<210> 18878
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18878

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ttatatgctg canagaatgg gnttttgcca cacatggaga cactggatgt ctgcctgtct 120
caagtcagca agcattgcta ttcttatcaa tggcagtcct acaaaggaat ttgctcctac 180
tanaggtttg aggcaagggtg atccttttagc ccccttactc tctaataatag ttggagaagg 240
catcacatga ttgatgaagg aagcagtcaa aagaacttat atagaagcta tatggctgga 300
aagaaaaacg aaccatttaa tatcttgcatg tatgcggatg acagcaattt tgtgggtgag 360
gctgagtggg agaattgta 379

<210> 18879
<211> 434

<212> DNA
<213> Glycine max

<400> 18879

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atgaagagtc caaagcaata cacatattta acaaatacaa aggtgaatgt tttttaacac 60
atgcacgcaa acgaacataa aggccaaaac gaacacatgc atgcaaacat acataaaggc 120
caaaacgaac cacatacaaa cgggtaaaaa aaaagaacaa aalagaaaca atgtaggca 180
tcaaaactga tgcaatccta ccccgcaagg gcattggata gaaaactcca agtagattga 240
gccagagatg caagagaagg cccatagggtt cttatgagcc ttaaggtaga tttcgggccc 300
atgggctaag tacgagccca cttatctatg taaatattag attaagggtt cattattctt 360
gggccttgta ttaaggctc cataatagag gtagaggacc ctagaaatat aagagttttc 420
agcccttgta tttta 434
```

<210> 18880
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18880

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aatcattcaa cgcattcaga atatgtgttc atccttanta aagctactct aaaataaatg 60
acacagtcgn cagcanagag taagtatcag atgatagggtg caccctata gatnttaatg 120
ccataagtat gtccttgccc ctccaacttc ttaataagag cttanatccc ttcagaacaa 180
aggatgaaca aaaaatgaga gatgggatct cctagtctga gacctttccc ctggataata 240
ggaccaacca agctttcatt gataataaca gagtagacag attggatgcg aattaaaatc 300
cacttaaccc aagtcgcact aaatctcatt ttggccatga cgttttttta ataatccca 360
tcgacttggt catagcttt gttgatatcc atcttcagcg caacttgtaa cctcccat 420
gttacccttg accttacact gcatatgatg gagaat 456
```

<210> 18881
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18881

ggacctgcag gcaggcaagc ttgatttctt ttctcacata ctggaatcga ttaccagaga 60
 agtgtttcag aaatattctc acagtccatc ttttacttga ttctgatggc tgcaaagcct 120
 atattatggg aactggacac aaantgccaa gagtctttca aaaccaaag gtattatcct 180
 ctaaaaagca catcglttta tcctcttaac aaattccttg gccaaattac ttgtgattca 240
 ataaggaatt atttgaglgc tcaaattgtg caatctatct ctttcaagag agatttcttc 300
 ttttcttctt cttcattctg aaaaaaggga ttaagagacc gacggctctt tgttggtgaaa 360
 gaattctaaa cacaaggaa gggttgctct tgtgtgtcta gaacttgta 409

<210> 18882
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 18882

acctttgtca atgatattct tcattgctct taagtgcaga agtccaaatc tttgatgcc 60
 tattttgact tcattcttct ttgcagggtg gacatgtgga ggagtaactg gttctttgag 120
 gtgtccataa gtagcagttg tcccttgatc tgctgccctt cataaaaact cattcttctc 180
 attggcacca agcattctga ctttgtgaag ttacattga atccttcac acccaactga 240
 ctgatgctga tcattagttgc agtcagtccc ttcaccagca gtactttgtt cagactagga 300
 agccatcatg gactagcttt cccattccag agatctgtcc tttagagcca tctccaaatg 360
 tcacat 366

<210> 18883
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18883

ctaataaatc tatgtatgat ntanaacaag cctcacgtca gagttatctt tagtttcatt 60
 ggaatatctc cttcttttgg ttttgaggaa acccatatgg atcaatgcat attaccacaa 120
 ggtcagtggg agtaaaatat gttttcttgt tttatatgta gatgatattt tacttgcaac 180
 caatgatcaa tgtttgtac atgaggtgaa acaatttctc ttttagaatt ttgacatgaa 240

agaatttggg tgatgcatct tatgtcatca gcatttaaga ttcatagaga tagacctcga 300
aggatttttag gtctatcata ggaaacctat attaccaaatt tttatagtga ttttggatga 360
taattgtcac caagtgttgc tcccatcgag aagggtgata gatttaatt 408

<210> 18884
<211> 324
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18884

ttttttgttt attggcntac tcaaaacagg accacgtttc atatttcttc cctagcatng 60
acataactgt cagttactgt cgaggcttct ggagcatcta taacttggtc actatattct 120
gtgcgacatt tgcgtggata agctgcatca aatctctctt gtctctctgg attccttcag 180
cacgaaagta gtttatgggt gtcaattgct tggcaactgt acttcgtatc tctactttga 240
caatcttctt ccgtatcgca tgcagagaag ccccttcttc aagctcttgt aacaatactt 300
ttcttgcttc ctcaaatacc atct 324

<210> 18885
<211> 437
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18885

gaaactcagc ttcacattca attcaagcgt gtcgatatat tacgggactc tatcagacat 60
ccgagtaaaa ggggttattgt cgtttgaatt tgttcagacc ttcggtattc catttcgagc 120
gtctcgatat attacggaac tcagtcagac atccgagnta aaagggttatt gtcgtctgaa 180
tttgctcaga gottcaacat tcaatttcga gcgtccggat atattacggg actcaatcag 240
acatccaagt aaaaatttat agtcgtttga atttgtcag agcttcggta ttccatttcg 300
agcatctcga tatattacag gactcaatca gacatccgag taaaaaatta ttgtcgttcg 360
aatttgctca gagcctcaac attcaatttc gagcgtttcg atatattacg ggactcaatc 420
gaacatacga gtaaaaa 437

<210> 18886

<211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18886

agcttttagtc ttttcaactg cacaacgctc ttaatatggg aagagtatcc ttgtggaacc 60
 ttcacctgac gaagacactg acataaactt atctttcctc tcttggaaca agtatygcag 120
 gctgggggca agtaaatttt cttcccatca gaccttggat gcaactgtgc tcttataccc 180
 atatcagcta gatcttgacg ggtattcaag ccacccctcg tcttgccttg aatgttaagg 240
 agcgtcccaa tcacactgtc acaaacattt ttcttcacat gcataacatc aatacaatgt 300
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctgtt cttccatatg 360
 caactctgac tnttatcctt cttttgggtc ttcccaaata cagt 404

<210> 18887
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18887

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 aacataaaaa gggaaaaggc aatatngtag ccgatgctct ntctcggcgt catgcattac 120
 tttcagagaa tggtttcttt agacatgaag gctttctttt caaagaaaac aaattgtgtg 180
 tgcctaaatg ttctactaga aatttgcttg tttgtgaagc acatgaagga cggttaatgg 240
 ggcatttttg ggtccaaaag actctagata cattacaaga accattttat tggcctcata 300
 tgataaatga tgtgcacaat atttgtgaac attgcattgt atgtaaaaag gcaaagtcta 360
 aggtaaagcc tcatggattg tatact 386

<210> 18888
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18888

actcagctag aaagcaactg gatgcgttgg tcaacttggc aacctatctt gttcttgaat 60

cagaaatctg tacctgtcgc aagggtttgt ggtttgtgct cctctgctga ccaccataca 120
gaccttngcc cttccatgca gcaacctgga gtaattgagc aacctgaagc ttatgctgca 180
natatttaca atagacctcc tcaacctcag cagcaaaatc aaccacagca gagcaattat 240
gacctttcca gcaacagata caacctgga tggaggaatc accctaacct cagatggtcc 300
agccctcagc aacaacaaca acagcctgct ccttccctcc aaaatgctgc tggcctaagc 360
agaccataca ttctccacc aatccaaca cagcaacaac ccagaaaaca gccaacagtt 420
gaggccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat gca 473

<210> 18889
<211> 418
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18889

nttagttcct cccaataagt gcctgaaata tgtgtttctg atcttacaca ctacgtgctg 60
ttngcttgat attgccatgc atatctctat gatatcatgt gatgcaatcc tccccccaa 120
gggtattgga tagaagactc caacaagttt ggcgcagaga tgcaagagaa gaccctaagg 180
ttctcatgag ccttaatgta gattttgagc ccatgggcaa agtatgagcc cacttatctt 240
tgtacatatt agattaagat atcattatctt ttgggccttg tatttatggc tctataatgt 300
aagtaagggt ccctagaaat gtacgatctt tcagcccttg tattttaagg cacctatact 360
agtttttgta ttaagggtac ttttgtaatt tcacatgcat taagtgaata tgtgatgt 418

<210> 18890
<211> 195
<212> DNA
<213> Glycine max
<400> 18890

gcaagaattg caggttaaca tctaactgct ccaagtgaag attctctgca gctactatgc 60
tcaaaataat tctgatggta gtcattctta caactggaga gaagatctct atgaaatcaa 120
ttccttggtt tctgtgaaac cctttcacca caagtctcgc cttgtatctt cttttaccgt 180
cagattcttt cttta 195

<210> 18891
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18891

agctnattat atcgagacga tcaaaattga acascggaag ctctcgtgaa attaaaatgg 60
 tcataagttt taactcggat gtccgattca ngagcttcac atatcgagat gcacganatt 120
 gaacaatgga agctctagag aaatttctaatt ggtcataaat tttcacaccg aggtcctatt 180
 cangcgctta atatatccag acgctcgaaa ttgaacaatg gaagctctcg agatattcaa 240
 atggtcatta cttttcacctc ggatgtccga ttcaagcgta tcacatatcc acacgcttgg 300
 aattgattaa 310

<210> 18892
 <211> 309
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18892

agcttttcatt gttcaattnc gagcgnncng angtgggtatg cgcttgaatc tgacctccgt 60
 gtgaaaagtt atgaccattt gaattttctcg agagcttccg ttgttcaatt ttgagtgtct 120
 cgatatatta tacgcctgaa tcggacctcc gagtgaaaca ttatgaccat ttgaaatgct 180
 caagagcttc cattgttcaa tatcgagcga ctcgatttat tatgcgccag aatcggacct 240
 tttagtgaag agttatgacc atttgaattt ctcgagagct ctcggtgttc aattttgagc 300
 ggcttgata 309

<210> 18893
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18893

aatgacgagt atgtgtaatt gtaataagct ccttagttga tattctagtc ataataagga 60
 tgcgtgctnt aaagttttac aatgcttgaa tntgtgtgat aatcttgaat atgcatttca 120

acttactcat ttaactttta taatattgat ccattggttaa ggattgaaat ctttcgaaac 180
atgttttggga aaatacttaa gtttttatcc cgcattcanat aattgattat atgatgatat 240
aattgattat cttgatgatg atgcctttgt ttttcataat tgagaaagac tcanaattag 300
tctattatct tgagtgaata/attaattata tggaattgaa acaaatttta ctatcacaga 360
taattaatta totgatgata taalrgatta tatg 394

<210> 18894
<211> 339
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18894

atatatatta gaggatttgt atataaatat gtaaaaatat ataaaaatca ttatccaaat 60
taatatatat tcaaatgatt ntatatccac acatgtcttg cattatgtta atttatgcaa 120
acatannttg aaaattatta tctttataag catattcgca tttgcatatg actttttatat 180
atatatatat ataattttta taagaaaatt agtaataaaa aatatattac attntgtaat 240
tattagttnt atactcctat catcataagg gggaaaagta tactactaaa ataaaacttt 300
aaattttattg ggtttatact catatcatca agtgtacta 339

<210> 18895
<211> 257
<212> DNA
<213> Glycine max
<400> 18895

gacatcaacc ggtccataga gtgtaaggag tatccacaag gcgcttctgg caacgacaag 60
aggatgttgc agaggttgga aactagtttc tttctaagtg ggggtatcat gatggacctc 120
attggaacct tgtggccttg gatcttcttc atcaatggaa gtccttgctt cttgaattta 180
atggcagcaa aatggaaaag aagaagagt gagaggagac accacttcaa ggagaagatg 240
agtctagaag aagctca 257

<210> 18896
<211> 372
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18896

ccacagcaga acaattatga cctttccagc aacagataca accctggatg gaggaatcac 60
cctaacctca gatggtctag ctctcagcaa caacagcaac ctgctccttc cttccaaaat 120
gctgctggcc caagcagacc atacattctt cctccatttc aacacagca acaaccccag 180
aaacagccaa cagttgaggc cctccacaa ccttccctcg aagaacttgt gaggcaaattg 240
actatgcaga acatgcagtt tcagcaagag accagagcct ncattcagag cttaaccaat 300
cagatgggac aattggctac ccaattgaat caacaacagt cccagaattc tgacaagctg 360
cctttctcaag ct 372

<210> 18897

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18897

tctggtggga catcttgact tgctttccaa tcnagacattc tctacagatt ctgccttcnn 60
ctatnntcag agggggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120
ttaagtgcag atgtccaaat atttgatgcc atattttgac ttcattcttct ttggagaata 180
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
tgctgccett cattaggact tcactcttct catttgtcac caagcattct gactntgtga 300
agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttc gcagtcagtc 360
ccttcaccag cagtactttg ttcagactan gaagtccatc atggactagc tttcccattc 420
cagtgatctt tca 433

<210> 18898

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18898

accttatcta ggttggacct cggctggagt tgaatacgta aggctggagt ttggctcatt 60

gcctgtcata ggTTTTTntt aaagctcggc tcggtttaca taaaagtctg gctttgccca 120
 cgagcctatt taaaaacttg cttaaagacg tctttgatta attaattatt ttaaaatcta 180
 gtgaaatact aacttaaaaa agaaacttat aaaatttcgt ataagcaatg tacaaattca 240
 aaaataattg gataacaaaa tcatattgaa ttcaagtcgt taāagtacaa agtatatcaa 300
 aagaaaataa aaagagcata atattaaaaa atgtatgga tagagatgat 350

<210> 18899
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18899

agcttttatt gttcaatttc gagtgtctcg atagaggatg cccctgaatc ggacctccga 60
 atgaaaagtt atgaccattt gaatttctcg agagctacct ttgttcaatn tcgtgcgtct 120
 cgatatatta tgcgcctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaatttct 180
 cgagagcttc cgatgttcaa tttcgagcgt cttgatatac tatgcgactg aatctaacct 240
 ccgtgtgaaa agttatgacc atttgaattt ctcgagagcc tccggtgttc aattttgagc 300
 ggctctaact gtgatgcgcc tgaatcagac atccgagtga aaagtatgga ccattgattt 360
 ctcgagagct cccgtg 376

<210> 18900
 <211> 290
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18900

agcttttatt atttttgccca gctgcatcan aatgggaaac aactggaggt ttttgagtct 60
 ttgcctcttg gcattgattg catcaactca tgctcaactt cagcttggtt tttatgctaa 120
 taatcgccca aaagcacagc aaattgcttt gaaatttggt catgaccata tccataatgc 180
 ttcataacta ccaactgcat taataagaat gcactttcat gactgttttt gtaaggtacg 240
 tgcttcaatc tttaagcttc tgtcattttt acttaacaca tacaatgtta 290

<210> 18901
 <211> 227
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18901

caactgcat taacatgaag cggacgat+ cccaatccg gatgaagta ttgtgag+ 60
 tggacttgag tgtttgtgag ccaccttgat gtcaccctaa catcaagtgt tggacctgag 120
 tgtgtagaag tgatctctat tgntcagaga gcaatctctg gtgtgtattt gatttaattg 180
 tatacaccgg agagtgattg agaggggagtg agaggggttc tcatatc 227

<210> 18902
 <211> 277
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18902

ttttgggggt ggccatttct tggatggcct tgattttctc aaggtccact tggaccccat 60
 ttctaccaac taaaaaacct aagaagacta tattatctac aaaaaggta cacttctcta 120
 tatttgcata gaggggtgtt ttcctaagga ctgaaagaac ttgcttgaga tgcctaagt 180
 gatcatctag gctcctactg tacactanaa tatcatcaaa ataaacaact acaatctac 240
 ctatgaaatc cattaagaca tgatgcataa gcctcat 277

<210> 18903
 <211> 186
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18903

agcnttaacc aagangggat ggtccatttc aagtacttga aaagataaat gacaatgcga 60
 acaagattgg attgcctagt gagtataatg tgagtactac atctaattgtg ttgacttaa 120
 ctctttttga tgtagatgga gaagccgatt tgagaacaaa tccttttgaa gagggagaga 180
 gtgata 186

<210> 18904

<211> 187
 <212> DNA
 <213> Glycine max

<400> 18904

taccacttgc acggtgctgg aactacttca catggacttg atggggccta tgcaagttga 60
 aagcctagga ggaaagacgt atgcctatgt tgt-gcggat gaattctcca gatttacctg 120
 tgtcaactat atcagagata aatcatactc ctttgaagtt tcctggagct gatctacaac 180
 ttcatag 187

<210> 18905
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18905

agctttaact ttatTTTTca taagcacttt gtgcttgtac attccaccgc aacgcaccct 60
 tcttcaaaca ttcggtcata ggacttgcta tagagctaaa attctggata aagcgtcgat 120
 aaaatgatgc aagaccaatg aaagatctca cctccgaaac tgttgtacgg ctcgccaag 180
 tcttgatagc atccactttt gcntgatcaa cggatactcc atcttttagac accacatatn 240
 caagaaacac caccctttca accaagatat cacacttttc ctttctccca tagagttgtt 300
 gtgctcttac ggtctcaa atttgtttca aatgagtgaa atgctcctct atagattngc 360
 tatacaccac tatgtcgtca aga 383

<210> 18906
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 18906

ttgctagaga cagtgtcaat gctatgtata tgggtttcttt ctttgtggca ccaaaggctt 60
 actcatatca gtgagaatgg gctgaattgt ttagccaaga aggatatgct tctacgattg 120
 aagaatgcaa atttagagaa atagtctcat tgcattggtg gtaagaaaac caaagtatcc 180
 ttcaagaaga atcctccctc cagaaaatct gagttgcttg aatcgggtgca ttcagatgta 240
 tgtgaccctt tgaaggtgaa atccttttagt ggtgcacttt attcttgtac cttcattgat 300

gac

303

<210> 18907
<211> 303
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18907

gatgctcana aacatcaata tctatcactc catcagtagg tctgcccaga tatttgtaa 60
tcacagcatg ggagaattta acacactntc ctctgacaaa caccttntga tactcatcac 120
tttttctgtt agatatgtca gagggaatgt tgacaatgaa ttccctgact aagccttcat 180
agcaatctcc caacttgctg acagtcttca gcagtcacgc agccttgatg aggtccatga 240
tctccttgca atccaatgca gctctttcca gttctcttcc caaggccagt cttcgttgat 300
aca 303

<210> 18908
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18908

tatcttgtat gtcttggatc ttcttcatca atgaattcct ttgcttcttg aggtttgatt 60
gcagcgaagt ggagaaggag aaagatgaat ggagatgcca cttcaagtag aagatgagtc 120
tagaagaagt tcaccaccat aggaagccat ggataagagc ttgaaggtag aagaagatga 180
atgaagggag aggaagagaa gagcatgaaa tttagtgcct cttagaaga ctgaactttg 240
aagtttaatt ctcatatgat caaagttgaa aaaatgcaca cacaagacct ctatttatag 300
cctaagtgtc acacaaaatt ggagggaaat ttgaatttct attcanattt cactcgaatn 360
tgtggagcca anatatcact aattatgatt ag 392

<210> 18909
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18909

tagganaatg atcttagagg atttatatat gagcaacttg tgtactccac cctgggctgc 60
caagatgtat caggatctca cgacaatggt ttggtgacca aacatgaaga gagaggctag 120
tgagtttgtg tatgtgtgta tagtatgtca gatcgctaac atagaacatc tgagaccctc 180
atgtaagttg caacacttgy agataccag aggaagtgga atattttca tggatttcac 240
tgttgactac ctaggacccc caaggtttcg atctatcta 279

<210> 18910

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18910

gcttgtgatt atcatgtaga ggattcatca naaggagttg accacgaaca aactataag 60
attcattcaa cgccatgaga aattgcatca acttgctct tttgttgtt gcttcacatg 120
tgcaaatagc atcattatag gatcctaact catcccacaa ttttttttta actttgtata 180
gtatgcagca actatcattt gatcttaagt aaggcaagca atctctctct cgatctggaa 240
aatgagtggg gcgttgcttt gaaagaaaca attttgaaga ttttcccaa cttcatgagc 300
agtgtaaana aaaataacac tatctgtaat atcaggggtc attgaattaa gaatcccatg 360
acaaaccata tcattgcatt ntcatgcta catagtcttc t 401

<210> 18911

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18911

agctntgagc ttattcttac gacaataact nttgattcgg atgtccgatt gtgtcccgta 60
ttatatcgag atgctcgtaa ttgaaaatag aagctctgag caaattcaaa cgacaataac 120
ttttgactcg ggtgtccgat tgtgtcccg agtatatcga gacgctcgaa attgaaaaca 180
gaagcactga gcaaattcaa acgacaataa ctttttactc ggatgaccga ttgagtcccg 240
taatatatcg agacgctcgt aattgaaaac agaagctctg agcaaattca aacgacaata 300

acttttgact cggatgtccg attgagtccc gtaatatatc gagacgctcg caattgtaaa 360
cagaagctct gagcaaattc acacgacaat tactttctac tcggatgtcc gattgagtc 419

<210> 18912
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18912

tatcctctac gacaatcaac tcggcggcaa aattcccggc tctatcggga accttaagag 60
ccttcaagtg ataagagcag gtggaaacaa gaacctggaa ggccttttac cacaagaaat 120
tggcaattgt tccagtttgg tcatgttggg tcttgctgaa actagccttt caggttctct 180
acctccaact cttggcctct tgaaaaacct tgaaaccatt gccatttaca cttccctact 240
ctcaggtgaa ataccacctg aacttgncta ctgcacaagg cttccaaaca tatatcttta 300
cgagaactcc ctactggat ccataccaag caagtggg 339

<210> 18913
<211> 154
<212> DNA
<213> Glycine max

<400> 18913

tctggtggga catcttgact tgctttctaa tctgacattc atttcagatt ctgccttctt 60
ctatgttcag attgggaatg cctctagcag cacctttgtc gatgattttc ttcatgcctc 120
ttaagtgcag atgtgcaaat ctttgatgcc atat 154

<210> 18914
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18914

tgagcgaatc caaacgacaa taactgtgta ctcggatgtc ttattgagtc ccgtaatata 60
tcgacatgct cgaaattgaa tgttgaagct ctgagcacat tcanacgaca ataacttttt 120
actcggatgt ctgattgagt cccgtaacat atcgagacgc tcgaaattga atgttgaagc 180

tctcagccaa ttcatacgac aataactttt ttctcggatg tctgattgag tcccgtcata 240
 tatcgagacg ctcgaaattg aatggtaaag ctctgagcca actcatacga caataacgtt 300
 ttactcggat gtctgattga gtcccgttac ttatcgagac gctccgaatt gaatgttgaa 360
 gctctcaacc aa 372

<210> 18915
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18915

agcttgaatt ttatgttgat ttgacagaga gaaatacttg tagcttggtg aagttactag 60
 aatttggtgg tttgctataa gaacttgaca ttgtcttggt ggttgagatg aaccaacata 120
 aatntgatgt gtcttattct tttttatttc tcttttgcta tttgatctgt tagggtttga 180
 atttgatctt tattatttaa aaactttggt tgttttataa agatttgaaa ctatcatctt 240
 atttgttntg caaaagtctg atatctgttt tgttaagtct tacttcacaa gacaataact 300
 ntattanttt acgaaaaaat tattttttta tgaaaattac aattcaatct tatttcttgt 360
 aatatttatt ttgcaatat tatttatattg tat 393

<210> 18916
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18916

ntagcttcca ctcgtaagac catatgccac tagaccagtc tattctagaa tatagaaaat 60
 aaacttcatg gtctcgaata catgtagcgt gcctaaactn tgaggtgtaa catcccaaaa 120
 ataatctaata aattatctag ataaagatat ttaaataat cttttattac acgacaagat 180
 agattaaata atttaaatat atcatataat gatttttatt tcgaacagag gttactataa 240
 taatatataa gatttggttaa cgataaatta acgataatag aaagtataga taaagaagga 300
 tcatttaaca gattgcaaat tacacacaat tottaataata tgggtgacag tctttctctt 360
 agaacacaca cataaaggat c 381

<210> 18917
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 18917

ttcgaatggg cfratacttt tcaactcggat gtccgattcg cgggcataac tcatcragar 60
 gctcgaaatt gaacatcgga agctctcgag aaattcaaatt ggtcataact tttcacacgg 120
 atgtccaaat ttaggacata atatatcgag aactcggaaa ttccacaacg gatgtactcg 180
 agaaatttga atggtcataa cttttcacac ggatgtccga atgtgggaca taatatatcg 240
 agacgctega aattgcgcta cggaagcact cgagatttcg aatggtcata acttttcaca 300
 cgaatgtctg attcgcggac ataactcatc tagacgctcg aaattg 346

<210> 18918
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 18918

tatgaagaga gaacaattta gagagtgatc gaagactttc aaatggattt ccactgaatt 60
 tattcataga gagatcgaga tatcttaatg atgaaagttt tccaaatgat ctaggaagag 120
 caccaccaat tgagttgttg gaaaaaagta acgtgtcaat attttttaaat gcccataat 180
 gatctgtcag attgcctgaa agtcgtgaac totgaactgc aagtcttggtg agtccatggg 240
 aaatacaagg agcaagaatt tctaaaagtt cattaacctg ttggttgagt ttgagatatg 300
 ataaatctat caccct 316

<210> 18919
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18919

gcttagctac acancccccct ataataagcta agtcacccn catgatataa tacatgaaat 60
 acttaaaagt ccctactaca aagactactc aaaatgcctc gaaatacaag gctataacct 120
 tatactacta gaatggccaa aatacaaggc ccaaacaaag gaaaaaccta ttctaantat 180

tacaaagata agcgggctca aacttagccc atgggctcgg aatctaccct tangctcatg 240
 agaaccctaa ggccttccct tggatctctg gcccaatcta cttggtgtct attatccaat 300
 gcccttgtgg ngtaagatng catcattccc tccaccttgg aaaggattt 349

<210> 18920
 <211> 252
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18920

ttatgttgca natatttaca atagacctcc tcaacctcat tatctaaatc aaccacagtt 60
 tatcaattat gacctttcca gcaacagata caaccctgga tggaggaatc accctaacct 120
 cagatggctc agcccttata aacaacaaca gcagcctgct ccttccttac aaaatgctgc 180
 tggcccaagc agaccatata ttcctccacc aatccaacaa cagcaacaac cccagaaaca 240
 accaatagtt ga 252

<210> 18921
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18921

agccttgaat ttatcttttc tatgtcttga attgaacctc atctaattat caaatattat 60
 aaatcacatt tcgttgtggg ggaatgtgag gctcanagaa catttgttat tttccatctc 120
 tctttgcagt gcatatgata gagcggctat taaattccga ggagtggagg cggacattaa 180
 cttcaacatt gaagattatg aagatgactt gaagcangtg atcaatttgt gaatatttat 240
 attttgttnt atcttatctt gaacagtcac acctcatagc tataggatca ccttatctcc 300
 tacagttagt gctatntttt ctgtcttgaa gtactctcat gaatttgta aatgcaatgt 360
 taatagatga gcaatcttac 380

<210> 18922
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18922

ntaaaggatg ttntatcagt acaaaaatat atgtntttgc tctggtaatt gattaccaaa 60
tattgtaatc aattactaga gatacattac cagagacaaa ttacataaag gctttttcaa 120
aaagaattt ccttttgaa atttgaattt taaagctgt aatcgatrac cacttgatg 180
taatcgatta cctgtgatga aatttcagaa gttaacattg aaaagtcgtg acctttcaaa 240
acataactat gtaattgatt accaagaagc tgtaatcaat taccagttag agaatttttg 300
aaaaatattc tgaaaagtca cgtgtctntc aaaagttttg aaaagccacc aaggacctat 360
aaatacgtga cttgtctacg aanaacatta gagttnttca ttagaaccta ngtgacatat 420
tctctcaaaa caaatcatt 439

<210> 18923
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18923

ttacctcctt gagataagaa gctagagctt agctacacac accccactaa tagttaagct 60
cacctccatg ccaaaatata tgaaaatata aaaaagtctc tactagaaag actactcaaa 120
atgcccttaa atacaaggct aaaaccctat actactagaa tggccaaaat acaaggccca 180
gaagaaggan aacctattct aatatttaca aagacaagtg gacccaacct tgacctatgg 240
gctcaaaaat ctacctgag gttcatgaga atccta 276

<210> 18924
<211> 353
<212> DNA
<213> Glycine max

<400> 18924

agctttcact tacatacgaa gatttgtgag tgacaaacca tgttgtcatt cttgacaaga 60
taaccaagag gcatgtccat gtatactccc tcaatcaaat cactattgaa aaacacatta 120
tttaaataca gctgaaacat gttccaattt ctgtgaggtg caatggaaag aaacactctc 180
attgcogtat gcttggaac aagttagaaa gtgtccaaaa aatcgatctc tgcttgatg 240

ttgttgtgtg taaccttttg caacaagacg agccttgat ctatcaatgg agccatctgc 300

tctatacttg accatataaa tccatctgca actgatgggt ctattatcgg gtg 353

<210> 18925

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18925

agcttccagt ttattttcat attntcagct cctagtttat agcttataag ctttcaacta 60

acttattaat tagttttacc aaattaaatt tgtagttta taagttttac ctagtttata 120

aatgaaaaaa taaattaagc taaaataaaa tgttcgtctt ttatgtattt tttgtttcta 180

ctctgctcct ctaatttagn ctcttataac tttcgggaag ataatagaaa atggaatcga 240

ttgaaacata gtagaatggg tgaatcatga atagaaagaa ttaacaatat gtcactctat 300

tattaaataa tgtagatgta taatataatg gtcaaaaatt agattccatc atttgataaa 360

aggagttgaa taaattatct ttttattcat tatgaaaaat aa 402

<210> 18926

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18926

agcttgaagt tatatgttaa aataactnng tgtattcttt ttacattctc ttgcaacagc 60

ctncacttga gnnattatcat tanannagtg ttcagggaat nntaatccaa acctattaan 120

nattgatccc aataanaatt gatnaatcga gcanaattgt tatanaaaaa tacctaaaca 180

cttcaatgcn agttcgggtt tgtgattctc atgttcaaaa ttgaactgag tcaaattgga 240

aacgtaacta aatttatatt agtcttattt tgtcttcttt ntttactgca attcctatat 300

atttatcttg aaatacaatt taaccttatt tgaacttata ttattatttc tgaataactt 360

gaagataatn tgcaatntag tctgtgattt agatcaagtt gtgggtttat gaccagaatt 420

aatagtttga aatgatattt ctgtatatgc attatg 456

<210> 18927
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18927

tatcrntgat tccccgaaaa ctcacctcgt tttatctgtg caticcaaat tctcaaaaga 50
 gtcagtcttg tggcatatca nattgcatta cctccgtgtc tttctaacct ccacaatgtc 120
 tttcacatgt ctcactctca taaatatatc catgatccat ctcacatggt cgaattagat 180
 gaagttcaag tgaaggagaa cttgacatat gaaacatttg ctttgaggat cgaggatagg 240
 cagacaaagc acttaagaac gaaagagatt ttatttgtca aggcagtctg gggaggtgct 300
 ttacgatagg aggcaatttg ggaactagag attcaaagtc gagaagccta tctgtcttg 360
 tctg 364

<210> 18928
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18928

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 actaaaatta attctccatt aactaaatat taattaattt atagatatca tatcatctat 120
 gagagaaatt atactaaaga ggctcttata ctcttttggg ggggttattt gctctatcta 180
 gctcttggtc tctatatctt tgcaaatacc ttctcaatgg ctctgcatag tegtcaaaac 240
 caagcgaccc caaggccag catatgtcat ccccggtcac tgtcttactc ctttccttcc 300
 tgcatttctc cgacgcctcg ctgggttaca agcttatgaa ctccgacacg cactcttgca 360

<210> 18929
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 18929

agcttcattt aatccatgcc gacatctgtg gtcccathtt gctccctca cacagcaaca 60
 aaaggtacgt tctaagcttt attgatgatt attcacgtaa agcttggatc tactttttgc 120

atgaaaaatc tgaacaaaat actgtgtaca aaagcttcaa agcctgtgtt gaaaaggaag 180
 ctggtatcta aattgtttgt ctaagataag atagaggtgg tgaattcacc tctaaagagt 240
 gtacagaatt atgcactaat caatgtatct ctaggcaatt gacgggtgcc tacaccccac 300
 aacagaaagg agtcgccgaa cgcacacacc gaactatcat gaatgttgta cgagctgtat 360
 taca 364

<210> 18930
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18930

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 atgtacaaca tcggttatca atacaaaacc gatgttaact aaatgatgtt aacattaaca 120
 tcggttttct acaacaaaacc gatgttaacc tatcttatgt taacatcggt tnttctaana 180
 atcgatgtta acatactgac tttaacatcg gttattcaaa aaccgatgtt accagtttca 240
 tgttaacatc ggtttttaaa caactgatgt taacataagc taattaacat cggtttttcta 300
 aaaaaccgat gttaacaaat tcacattaat tacaattatg ccaccatgtt aacgttaaca 360
 tcggnnttga ggaaaaccga tggttaaactg acgatgttaa at 402

<210> 18931
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18931

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 catttagcgt caatttcaag aagccccaat caactttatc atagactttc tgcaaagtca 120
 attnttagcc taagattccc ttttttatta tgcattgtat gggcaatctc ctgagctatt 180
 atagcattat cagatggatc tctattagga atataaatgc tttgcaaagg gccataaga 240
 ctatcaaaat gaggttgaat gcgattaaca agcacttcag agataatttt gagatcgaca 300
 ttgcataact gatgggccta aactctttta aggaagaagg gcaatccact ttggggatag 360

ttacaataag agtttcaacc aaacttggat tgatggagcc taaag

405

<210> 18932
<211> 283
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18932

ataatatagg atgattatgg atccaacata taccttagtc atgatcaatg cagcatggta 60
acaaaggaaa tgtatggaaa ctactangt gccagctatt cttgtgctca catgggtttc 120
tgccatcatca ttaagcttag cctagtccaa atcaaatac ttgggggttga gatctttata 180
ccacaacaca ttattggcct tgatgtccct atgaacaatc ttcattgttg actcttcatt 240
aaagtagcca aacctatagc gataccaaca cgaaatctat gct 283

<210> 18933
<211> 238
<212> DNA
<213> Glycine max

<400> 18933

ctctgcaggg aatctaagtg tgaagcatgc tattctgcac acgattgtag ctgccaactg 60
ggtagccact aatcatactt ccaactgttg cacaagttcg agtaaatttc tgtatgctgt 120
cggaaccaca tccaaatatt atctggaaac tatatctttg atcaaactgt caaacattca 180
taatcttttag ctatcaaata agccattgcc ttccctactg tattgtgtgc attatgac 238

<210> 18934
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18934

tttcttgcatt ttctctcttc ccttanactt cttttattta ttgctatgta tctcttgctt 60
taaagaagtt aattatgaat tgtcttttga gtaattcatg ttaacgggtgc attgttaatc 120
cgaaaagaga gaggatagtt ttaattgagg aatagctctt gtatcttaat tcaaccctt 180
tctttcttaa cgttactgaa gccatttgct aacatcctat tcttgacaac tgccttctct 240

aagaagacca actctcctgc cttgataaat gaagcccat gaacgtctat atttttactt 300
gaaaacacag tcatcaaagc tcctttctct ttttgaa 337

<210> 18935
<211> 339
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18935

tatctntctt tcaattcaca cgacaataac gttntactcg gatgtctgat tgagtcccg 60
aatatatcga taagctcgaa attgaatggt gaacctctga gcaaattcaa acgacaataa 120
ctttttactc ggatgtctga ttgagtcccg tcatatatcg agacattcga aattgaatgt 180
tgaagctctg agccaattca aatgacaata acttattact cggatgtctg attgagtccc 240
gtcatatatc gagacgctcg aaattgaatg gtgaacctct gagcgaattc acaccacaaa 300
taacttttac tcggatgtct gattgagtcc catattata 339

<210> 18936
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18936

tgctaaccce tggaagctcc taatatctcc cacactntnt gagatgggccc attcatggat 60
ggccttgatt ntctcaaggt ccacttggac cccatttcta ccaactacaa accctaagaa 120
aactatatta tctacagaaa aagtacactt ctctatattt gcatagaggg tgtttttcct 180
aaagactgaa agaacttgcc tgagatgtcc tgagtgatca tctangctcc tactgtacac 240
tanaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
cataagcctc ataaaggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360
atacaaacca aacttggctc tgaaagcang tatccactta tcaccatttt tcatcc 416

<210> 18937
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18937

tcaacctaga ggagacggac cattccaagt gttggagaag atcaatgaca atgcctacaa 60
gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120
ntttgatgca gatggagggg ccttggattt gaggacaaat ccttttcaag aagcagggag 180
tgatgaggac ataaccaagg tcaaggacca tгнаacactt gaagggccca tgaccagagg 240
cagacttana caagcccaac acgtcataga gacaaagcta gtcatttgta tagctgccat 300
tgatgatgat tgaaggccca agtgg 325

<210> 18938
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18938

taagagtnta accatgcgta gatatcctat ggtaatatct ctttttttta ccatttgaat 60
agtgtaaaaa cactacccaa tcgcctaaca aaacaataat actgtctacc acacacacat 120
gaaaaattgn gatgttaccg tgtttgtttg acattctttg tcttcctagg agtgtatgta 180
ataatatctt tgtagcacac atgagaccga tgttgtttgg taagagaaaa ataagattct 240
agtaaattta gagagtttga taagcactgt gctacttcaa caaatataaa gatatgtgaa 300
atttggtgaa gggatatctt cctcaaatac ttgtcaatta atataagcat acaaaatana 360
attaaatata atataaatca taaaatatct tactaattat aagatcaaca ttggataata 420
agagtaagaa cacattatta tttaaacagt tgaaagataa aagtaatatt attaaagaac 480
ta 482

<210> 18939
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18939

agcttgagta tagagacttc tcaagctatt tatcttctct ctcagagaga ctctctcatt 60

ggattgatag gaatgaagge tcctaccctt atttatacta ctctacctcc acaatgaatg 120
 gtggagatta cttgtatcat anggtggaga ttaattctct agaatgttgc acacattcta 180
 tgagtcttta cactcttcta ctcttttcca tatecttcca taaggttcca cacatctcta 240
 gaatattcta gaggtttcca cattcttcca caagcttcta gagagttcta cactactcta 300
 gagttctcta ggacgttcta aaaaattcta tactnttcca gagatgtcta gaatttcta 360
 gaacttctcc aattaagaaa ggattccaac aattgtaatg tate 404

<210> 18940
 <211> 386
 <212> DNA
 <213> Glycine max
 <400> 18940

tttcttgtgt atccaatacc ctgatgagga tgtcccatat gttcttaaaa ctggactgat 60
 ccatttgctt ccaaagtttc atggtcttgc aagtgaagac ccacacaagc atctgaaaga 120
 attccatatt gtttgctcca ccatgaaacc accagatgtc caagaggatc acatatttct 180
 gaaggccttt cctcattctt tagagggagt ggcaaaggac tggctatatt accttgtctc 240
 aaagtccatc acgagttggg atgacctcaa gagagtattc ttataaaaaca ttttccttgc 300
 ttccaggacc acgaccatct gaaaagatat tttaggcatt acaaaaactca gtggagagag 360
 cctatatgaa tattgtgaga gattta 386

<210> 18941
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18941

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 cttttctgat caggtacatg gacatgagtt angcacccaa atactttaaa gtaatctact 120
 ntaggtttga ttccactcca catctcttct ggagttttat ctttactgt caatgtggga 180
 ctctgtnga gaacatgaac tgtccatttt gcagcttctg gccaaaaagc ctttaagtact 240
 tgtttgtcac aaagcatgca cggaccata ttcataatgg ttcgatttta cacttcgcta 300
 cgccgttttg ttgtggagtg taagatgtng tgagttgcct gcttatgcca tgaattntac 360

aaaatcatta actcatttga ggtgaatcac cccccctatc tgtgcgtaac aacatat 417

<210> 18942
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18942

cttctacatt caacctacag tcttctcana tgtttatgta catctttcta gttgcattnt 60
 caccttatca gaagagactc tgnaaagtta aaatacaact cataatgctt tcaattgaat 120
 ntgtaacaat caccaggatg gcatgctgat tgcanaggat gagatctttg gtccagtcaa 180
 tccatattan naatcaagta agaaaacaac tagtggttagt taattacttt gcagagaatg 240
 gtattatact accatacatg tgttgtgctt tgtgcattaa tttttgtgtt gatgactcca 300
 gggaccttgg tgaggtagtt catagagcga acaacacacg ttactggctt gcggcaggaa 360
 gtgtcacaaa gaacatggac actgcaaaca ctttgacgcg ggcactgaga gttggaacag 420
 tttggataaa ctgctttgac aca 443

<210> 18943
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18943

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 atatatcgag atgttcgtaa ctgaacaaca gaagctctcg agaaattcaa atggtcataa 120
 cttttcactc ggatgtccaa ttcatgcgca tcacatatct agatgtcga aattcatcaa 180
 ccgaagctct atagaaatgc anatggtcat aagttttcac tcggatgtca cattcaggcg 240
 catcacatat cgagacgctc agaattgaac aatggatgct ctcgagatat tcaaattggc 300
 ataacttttc actcgcatgt gtccaattca ggggcatcac atatcgagac gctcgataga 360
 gaacaacgg 369

<210> 18944
 <211> 480

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18944

tcaagaaaaa gatggcctca gcanattcct tatttccaga aggggaattct atcaatagac 60
ctccaatcct taatggagag ggttaccact actggaaaac ccgaatgcaa attttatcg 120
aggcaataga tctaaatata tgggaagcca tagaaatagg gccttatata cccaccacag 180
tagaaagagt ttcaatagat ggtagttcat caagtgaag cataactata gaaaaaccta 240
gagatagatg gtctgaagag gatagaanac gagtacaata caacttanaa gccaaaaaca 300
taataacatc tgccttgga atggatgaat atttcagggg ttcaaattgt aagagtgccta 360
aggaaatgtg ggacactcct cgattaacac atgaaggaac tacagatgtt aaaagatcta 420
ggataaatgc actaactcat gagtatgaat tatntagaat gaatgcgaat gaaaatattc 480

<210> 18945
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18945

agcttcatca ttctatttcg agggctcga tatattacgg gactcaatcg gacatccgag 60
aaaaagttat tgtcatttgt atttgctcag agcatcaaca ttcaatttcg agcgtgtcga 120
tatattacgg gactcaatca gacatccgag taaaaagtta ttgtcggttg aatttgctca 180
gagcttccgt attcaatttc gagcgtctcg aaatattaca tgactcaatc agacatccga 240
gtaaaaaatt attggtcgtt gaattttctc anagcttcaa cattcaattt cgaggggtctc 300
gatatatatta 309

<210> 18946
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18946

ntgagggatt tcanacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60

atcgagacgc tctaaattga atgttgaagc tctgaccaa ttcaaacgac gataactttt 120
tactcggatg tctgattgag tcccgtata catcgagacc ctcgaaattg attgttgaag 180
ctctcagcaa attcaaacga caataacatt ttactcggat gtctgattga gtcccgtaat 240
acatcgagac gctcaaaatt gaatgttgaa gctctcagca aattcaaacg acaatagctt 300
tttactcag atgtctgatt gaggcgta atatctcag argctctana ttgaatgttg 360
aagctctgac caaattcaac cgacgataaa tttttactcg gatgtcttat tgagccccga 420
aatacatcga gacgctcgaa attgaat 447

<210> 18947
<211> 382
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18947

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caatgttttc ttttgtcatt ctacttatgt agtagaatat agtataccag ctccatttac 120
aaagacttga aaagactaac cattccttcc atctttgagg taaatngacc accacattgt 180
tgcttcagtt ttgtcaaaat acttctctca tgatcatcat tggcactctt gtcaaaaagg 240
agccttcgag caagcttctt cctacaagca atcacgcaag aacatgtntg actattcttt 300
tgcaagcatc ttacagtang aaaaaaggta atgatgacac tcaaattagc cacagaaagc 360
agaattcaat gatagactac ca 382

<210> 18948
<211> 412
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18948

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gattgatgtt tataatatat cgacacgctc caaattgaac aatggaagct cttgagcaat 120
tcaaattggc ataaatagtc actcggaggt ccgattcatg cgcataattt atcaagacgc 180
tcgaaattga acaacagaag ctttcaagaa attcfaatgg tcataacttt taagtcggat 240

gtccgattca ggcacataat atatcgagac tcacgaaatt gaacaacgga agctctcgag 300
aaattcaaat ggtcaaaaact tttaactcgg atgtccgatt caagcacata atatatcgag 360
acgcgcataa ttgaacaacg gaagctctcg agaaattcaa atggtctaac tt 412

<210> 18949
<211> 414
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18949

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tgTtcttcaa ttagaattgg agTTTTacct atgtaatata tgTtgatctt ttatagaaga 120
ttttattacg tggattatca agatgaaaact ccaattctga tcggagaaca aactaaaaa 180
cacttaagaa actacaccta agTTTTgtcc tttatTTTTat agtaactttg ttcataaagt 240
tactagaatg atcaataaac tacaaatttg tggTtgaata ggaactgaga cgtttcccaa 300
ctctccaagc cgaaatagca gcagctacaa atgaggcttt agagaggTtc cgcgaagaga 360
gtaagaagac agctatgcgg cttgtggaca tggaagcttc ctatctcact gtgg 414

<210> 18950
<211> 419
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18950

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catcttcagt gatccattta gggaaacact cttgacatcc atttgggtcta actntaaatc 120
cataacataa gcataagtag taatcttacc acttctagtc tagctatcgg tgcataagct 180
taaccaaaga ctatactgtt ttgttggTta tagctcttga ctactatcct tgccttattc 240
ctagtgatca aaccatgttc attcaattta tttttaaaca ctcaatttagt gtaaagtatg 300
ttcatgtttt taaaataagg tattaattcc catatatcat ttcttttaaa ttgggtcaac 360
tcctcatgca tggacatcat ccagaactta catttgagtg cctcttctat agacaatgg 419

<210> 18951

<211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18951

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agcttgagtg ctnttgcgc aggacaagct gcagccttta agatgtttga aaccatnaa 60
aggaagccag aaattgatgc ttatgacact actgytcggc agcttgatga catccgtyga 120
gatatagaac ttagggaggt ttgctttagt taccctacta gacctgatga actgatattc 180
aatggattnt ctctttcaat accaagcggc actacaacag ctttggtagg agaaagtggg 240
agtgggaaat ccacagttgt tggtttgata gagagatttt atgatccaca ggcaggtgaa 300
gttctcattg acagtatcaa cctcaaagaa ttcaaactga aatggatcag acagaanata 360
ggcctagtta gccaggaacc agttctcttt a 391
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<210> 18952
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18952

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tatatccaaa acggaaagta atcattgctt gaaagttgat ctggaagagg atctgagttc 120
ctccttctac ttgccatttc catcaaaagc ttccaaaac tataaacgtc ggccttatat 180
gatactccac caatattttt gtagtataat tctggagcta tgtagcccaa agttccaatt 240
gcttcaggta aaacaagaga cctatctttc acaggatgta gctttgcaag tccaaaatct 300
gaaacctttg ggatgaagct ctcatctaga agaataattgt gtggcttgat atcaaaatgt 360
agaatttgca catcacaacc ttca 384
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<210> 18953
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 18953

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agcttggtta tccatggaag ctccataat ctccacact ttttggggtg ggtcattctt 60
ggatggcctt gattttctca ggttcactt ggaaccatt tctaccaact acaaaaccta 120
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agaaaactat attatctaca caaaagggtac acttctctat atttgcatag aggggtgtttt 180
 tcctaaggat tgaaagaact tgcctgagat gtcctaagtg atcatctagg ctctactgt 240
 aactataaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300
 aatgcataag cctcataaag gtgcttggtg catttagtgag cccaaaaggc atcactagcc 360
 attcatacaa accaaacttg gtcttgaaa cgtttt 396

<210> 18954
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 18954
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 ccacttggaa cccattttcta ccatctacaa aacctaagaa tactatatta tctacacaaa 120
 aggtacactc ctctatatct gcatagaagg tgttcttcct aaggattgaa agaacttgcc 180
 tgagatgtcc taagtgatca tctaagctcc tactgtacac taaaatatca tcaaaataaa 240
 caactacaaa tctacctatg aaatccctta 270

<210> 18955
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 18955
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 actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120
 tttctggctt cagtaggagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240
 tgatggtggg ggcaactggc acatagtttc ttaaattctt cccagtactc atacaggctc 300
 tctccactga gttgtctaata acctgagata tccttctga tggctgtggt cctggaagca 360
 gggaaaattt tttctaagaa tactctctt 389

<210> 18956
 <211> 429

<212> DNA
<213> Glycine max

<400> 18956

tcaagaataa tgggtctcatc aaactattta tttctcgaag ggaattctat aaataggcct 60
cctattttta atggcatggyg ttaccattat tggaaaaccc gcatgcaaat ttgtatagag 120
gctatagatt tgaatatctg ggaagccaca gaaattaggt cctacattcc cactatgggt 180
gcaggaaata cacccataga aaaacctagg gaagaatgga gtgaggagga aaagaaatta 240
gtttaatata atttaaaatt caaaaatata attacatatg ctttaggaat ggatgaatac 300
tttaggggat caaattataa aaatgcaaaa gatatgtggg ataccctaca ggtaacacat 360
gaagatacaa catatgtaaa aagatctagg ataaatacat tgacacatga atatgaatta 420
tttagaatg 429

<210> 18957
<211> 412
<212> DNA
<213> Glycine max

<400> 18957

agttgggggtc acttataatt taactcattg atttgtcaag aaaactattg gaaaaacgag 60
agtgtgtaat gatttttggt ttttgtcttg tatgaacatc ctatagtaaa atttacattt 120
ctctctatat gattaacttt ggattttgag tcatacctta tccaaaacta ggcatatg 180
actttttata ctggtaaagt ttataaaatt ttgttatatg ataagtataa gttatgcaat 240
agttttataa gtactctata gaaggaaaaa aatgtaaact tgagttttta tataaatttt 300
taatcagata aatatattta tgtataaatt tggtttgggt tggattagat tgaattttta 360
aatgaaatcc aaaatctgat tctatccaaa acatatgagt ttgttaaatt tt 412

<210> 18958
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18958

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cttcctctaa atccccatgc aagaatgcag ttntaacatc taactattcc aagtgaagat 120
tctttgtagc tacaatgctt agaataactc tgatggtagt catctttaca attggagaga 180
aaatctctat gaaatcaatt ccttggtttt gctgaaatcc tttcaccata agtctcgct 240
tgtatcttct tctaccatca aattcttctt ttagcctata gaccactta ttctgtaaag 300
cttcctctcc tcttagcaat ttaattaaag accacatctt attctctga agggatgca 360
tctcatcttt ca 372

<210> 18959
<211> 403
<212> DNA
<213> Glycine max

<400> 18959

tatgctacaa acatttataa tagaccctct cagtagcatt accaacaaca gcagaataat 60
tatgatcttt caagcaacag atataatcta gggtggaaga atcatccaaa tctgagatgg 120
gcaagtcttc cacaataaca acagcctatc cctcctttcc agaatgttgt tggccaagc 180
aagccatatg ttcctcctcc aatgcagcag cagacaacaa gcagctgagg ccccttctca 240
accttccttg gaggagttag tgaggcaaat gaccatctag aatatgcaat ttcagcaaga 300
gacaagagcc tccattcaga gtctaacaaa tcagatgggg atgatggcta ctgagttgaa 360
ccaagcttag tcccaaaatt ctgacaaatt tcttcacaa act 403

<210> 18960
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18960

tatgaccatt cgaatttctc gagagtttcc gttgttcaat ttcgagcgtg tagatgagtt 60
atgtccccga atcggacatc tgtgtgaaaa gttatgacca ttcgattttc tcgagagctt 120
ccgttgttca atttcgagcg tctcgatata ttatgacccc gaatcggaca tctgtgtgaa 180
aacgtatgac cattcgattc tctcgagagc ttccgttgat caatttcgag cgtctagatg 240
agttatgttc ccgaatcgga cattcgagtg aaaacttatg accattcgaa tttctcgaga 300
gcttnncgtg gtcaattttc gacgctctcg atatataat 339

<210> 18961
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 18961

acttatcaca cggaagtcgg attggagctg ataatatatc gagaccctca ctattgcada 60
 aggtagtcct aatgaaagat aaatggggat aactttttta acggaagtct caattcaagt 120
 gcatacaata ttcggaagct cgaaaatgaa caatggatgc ttctgagaaa attaaatggt 180
 cataacttat cacacggaag tccgatttag gcgcataata taccgagacg ctcgatattg 240
 caactcggaa gcactcaaga aattcatgtg gtgataactt atcacacgga agtc 294

<210> 18962
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18962

gcactcagct atgtaggcaa tcgtgatctt tgtgggcctc cacttaccaa aatatgtttc 60
 caggggtgga aacctaacaa cacagagcca atagatgaag atggagatga gtttgcattt 120
 ttgtcgtggc ttacattgg aatagaatct ggatttgcca cgggcttttt gggattttgt 180
 tgtgtcattt tcttaatcag aaaatggagg catgcatact tcaagtttct ttatgacttg 240
 aaagaccaac tttatgtcat ggtggccatc aaaatgaatt cttttcgttg aggtcggaca 300
 caaccatact ggtaagtaaa acctttgatt agttgaaatt tcngttttta ttatacaaga 360
 taaacataga ccatatttta acat 384

<210> 18963
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18963

tgtgcatcca ataccctgat gaggatgtcc catatgttct taaaactgga ctaattcatt 60
 tgcttccaaa gtttcatggc cttgtaggtg aagaccgca caaacatttg aaggaatttc 120

atattgtctg ctccaccatg aaacccccag atgtccaaga ggaccacata tttctgaagg 180
cttttcctca ttcattagag ggagtggcaa aggactggct gtattacctt gctccaaggt 240
ccatcacgag ctgggatgac cttaagagag tattcttaga aaaaattttc cctgcttcca 300
ggaccacagc catcaggaag gatatctcag gtattagaca actcagtggg gagagcctgt 360
atgagtaetg agagagattt aagaaactat gtgccagtta cctcaccat cagaattcag 420
aacagcttct tct 433

<210> 18964
<211> 397
<212> DNA
<213> Glycine max

<400> 18964
agcttgtatt atagttaaga gtcacgagt cactatacca ttaactatga aaaaaagtaa 60
tgatcctttt gctttaatcc attatgacgt atggcggtcca tccccaaaat cttctatata 120
tgggtataga tggatagcga ttttgttga tgattgcaact ccaacgacac gtattgactt 180
gatgaaacaa ggatatgatg tggtaacacat acttgaacaa tctcatacta tgattcaaac 240
tcaatattca aagaagacta cgatccttcg ctctgatacc atgtataact gatatgatat 300
ttgcatatat ctcaatcgca tcttacaac ggaaatatgt tatatgtata tacacagaca 360
accctatgtc taattataac tagatcacga taattat 397

<210> 18965
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18965

tttctttctt ttgaggatga gaccagtctt tatccccaaa tacatgggtt ttattttctaa 60
tatcaacca actataacct ggctacttgt tcatgttgct aatttttatc atcttctca 120
aacttcgtac atcttcccat tgctactctt ttgcgtaaat atttgaaagc caaacatgag 180
ccacactatt tttaggttca gccttcatca atttgtctgc tgcaagattg gccctttcca 240
tgtcccatg aattttacaa gcccgaagaa aagaacacca gccaaagaca tgttatttat 300

aaagtcttct gcttctttaa gctttccagc tctacctagc aaatcaatag cacaactgta 360
atgctcttct ntagggacta ccccataaat cttttcatgg aattaaagta gttatacccg 420
tcctcaacca t 431

<210> 18966
<211> 383
<212> DNA
<213> Glycine max

<400> 18966

agcttgattg caagttgctt tgtctatatg catcttaatt cttctagatc ccatectacc 60
attacaccaa gtgagactag atccccctga acagaggtgg gtgagatcat tctagacaga 120
ccaattggaa aaatcttcac aagattgctt gaggggaagg tagccaccaa ttctttcatg 180
tgcccctgaa accgcattga aatcaccaat gtāaacccaa ggtccaagga agttgatcag 240
catagaagag agctcatgcc ataagattgc tcttttaatg ttggaggtgg aaccataaat 300
agtagctaca taacatgaaa tgttggttaat agaaactaca aaagacatgc tttgatcaga 360
gatagctaac atagacaagg aag 383

<210> 18967
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18967

agctttgagc aaattgtaat gacaataact ntatacacgg atgtccggtt gagtcccgta 60
agatatcgag acgctcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120
tntatacacg gatgtccggt tgagtccgtg aatatatcga gacgctgcaa attgaaaacg 180
gaagctcgta ggacattcaa acgacaataa ctttntactc ggatgttcga ttgaatcggg 240
taatatatcg agacgatcaa aattgagact agaagctctg agcaaattga gatgacaata 300
actttataca ctgatgtgcg gctgagtcgc gtgatatatc gagacgctca aaatttagat 360
ccgaagctct gagagaattg aattgacaat aac 393

<210> 18968
<211> 424

<212> DNA
<213> Glycine max

<400> 18968

tgaactatca ggaaggatgg tgggtctaatt tgtagaactt ttataattcg acatctagta 60
cgaaccttat ggtcrgatga agacadaact catggttagac ttcttgaag aatccgttgg 120
gaatgaccaa accaccccag actgggtggag cttctacgtt gacggtgcat ccaacgtgaa 180
ggggagtagg gcatgaatca tctttgaagg ccttggaaat gtcactctaa agcaagccct 240
taaattttaac ttcaaagcct caaacaatca ggccgagtac gaggcactca ttgcaggtct 300
aaaactagca acaaaagttg gggccataaa gctctgatgc tacacggact cgcactctgt 360
ccagggggcag gttgccaact gataccagac caaagagaca atgttgctca agtactacca 420
catt 424

<210> 18969
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18969

agcttcccat ctctagcatc cctcttgaac ttcaaatacat actgatggaa cttccatatg 60
tacttcaatt tcctcagatt cctatagaac agagttgttg gtatgttctg aaagtaaatac 120
ccaaagtcta ggccattctc atgcagagaa tcaaagatgg ttttttgagg ataccctttt 180
gctaactgcc tcttgatatg acttggtgaa ccatgagagg ttgctgagta cacaaaaagc 240
ctattggggtt gtgttgacc aggaattgaa gaanaccacc tgtcaaaaac agcaaattcc 300
ttaaccaaag cagcataaat cggcacagag tccggtttta accctttcat gacagtctca 360
gagaggttgg gagacataga caatgc 386

<210> 18970
<211> 393
<212> DNA
<213> Glycine max

<400> 18970

tgtaaccgag gcatgctaga cggctctttat atttacaaga aatccttcca ttgtaagcac 60

accacatatg aatgagttta tttttggaaa tatcatcatt aatgataaaa ataaagatct 120
atggacatac aaacaccata tatatacgca ctgtaaacgg ccaagacttt agctgatata 180
agtgtcatct tctatactct cctctctttt ctttatatat atgctgccag attgctcact 240
tcgcaaacaa agaacattaa tgctcgtctc atataaacia actgttcact ctgctgctgc 300
ttctatggac agttaccaa tctctacatt ttctcgttac tcttcttacc ctgtaatcat 360
tcttcacgga ctccgaacc cggacaacttt tcc 393

<210> 18971
<211> 401
<212> DNA
<213> Glycine max

<400> 18971

agcttcaaatt ctagcttttg gaagagcttt tgttaaaata tctgcacttt gatcttcagt 60
tctgcagtaa attagtttgg cttcaccttc tctctgtgct tcccttaaaa aaaaacttga 120
tcttgaaatg cttagtcttg ccataaaaaa caggattatt tgaaatggaa atagctactt 180
gattatcaac aagaatctgt gtaggctcct tttgttccat atgtaaatca gcaagtatac 240
gccttagcca aataacttga ttcacaactg cagtggctgt catatatact gcagtgcttg 300
tagcctttgt ccacagcttc tttggcaact cctttttata caacatacac cttgtcatct 360
tcatgatatt tctattttct tctctcactt gtaccattct a 401

<210> 18972
<211> 416
<212> DNA
<213> Glycine max

<400> 18972

tgttgaaact aaggatggaa tagtgatgca ccagaagaag ttcatttaag attgtttgaa 60
gaggttcaac atggatcaat gtaataatgt agatatttcc gtggaaggaa atatgatact 120
ggatacaggc gatcatgaag cttcagtaga tgccacattg ttcaagaagc tagtgggatg 180
cttgagattc gtctaccata gtagaccaga aatctcatat ggatttggtc ttggcagcag 240
attcatgagt aatccaaaac agtctcattt ggcagcagca aatagaatct tgagatatct 300
aaaaggaaca cttaattatg gcatattggt tcctcatcag acagaaaaat gtgagctata 360

cctcgtagct tattctgact catactgggtg agggggataa gtggagagaa gatcta 416

<210> 18973
<211> 329
<212> DNA
<213> Glycine max

<400> 18973

aaatcagcca ttattgaacc attatgaact ctccaaccac cgggaccatc tccggtggaa 60
gaatcattcc aaacaacagc aacaacaatc ttattttcaa aatgctattg gccaagcag 120
aacatacatt tcttcaccaa tccagcaaca acaacagcaa ccgccccaga aacagcaaac 180
aggtgaagct ccttcgcaac cttcccttga agaacttgtg aggcaaatga ctatgccaaa 240
catgcagttt caacaagaga ccagagcctt cattcaaagc ttaactaatc agatgggaca 300
catggctaca cagttaaatc aacaacagt 329

<210> 18974
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18974

ccttgtccga aaagtcactt anaaccattt taaggtccaa cgccttanaa cggtcctctt 60
tgcttttatc gattaacatg gaccgttcaa aagcataaga tcaacacata actttaccgc 120
ttttgcaaga actatgtagg tctgagttcc tcatcacana tcgaggatac gtangagcaa 180
aagccccgct tttgtcgacc accccaagag atcgttaatg gtccaacgcc ttaacgtttc 240
tctcctttca aaaaccaaga gatcgttaat ggtccaacgc cttaacgttt ctcttctttc 300
aaaatcaaaa gatca 315

<210> 18975
<211> 439
<212> DNA
<213> Glycine max

<400> 18975

tataaaactc agctttacat ggatgtccga ttcggtgaca taatatatcg agacgctcga 60
aatcgaacaa cggaagctct cgataaattc gaatggtcac aacatttcac tcggatgtcc 120

gattcgggga cataatatat cgagacactc gaaattgaac aacggaagct ctcatgatat 180
tcgaatgctc ataacatttc acacggatgt ccgattcggg gacataactt atctagacgc 240
tcgaaattga acaacggaag ctctcgagaa attcgaatgg tcataagatt tcacacgaat 300
gttcgattcg gggacataat atctcgatac gctcgaaatt gaacaaccga agctctctag 360
gaattcgaat ggtcataaca ttctactcgg atgttcgaat cggggacata atctatcgag 420
acgctcgaaa ttgaacaac 439

<210> 18976
<211> 325
<212> DNA
<213> Glycine max

<400> 18976
gatgatactg ctaactctat aattataaat catgcttttg tattctaata tatttcactt 60
cctgtatgct gcgcaaaaac tcattcttac tgggtgtcaag ttccagacct tgcattgatga 120
tgggactgtg gaactatggg atatatccgg tagctttgtg ttttcagaaa atgatgttgg 180
gaaaatcatg gcagcaactt ctgttagtaa ctgcaagagc tcacaatgca gtggttgtag 240
aaagcttgac tactcagctg actaatgagc acctttccaa ttttcaagta cctacttcct 300
ctgtctaata ttccctttct tttaa 325

<210> 18977
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18977

agctcacatt ttncctttatt ctgnnncttt nggagctgnc aaatgattgg ttgtaatcct 60
tttatgtagt tatgtactat gcataatgcc aaaggacaag tcatactatt cagttttcaa 120
aaggaataac cttaaactg catcctatat tgcattgngg tgggggtggtt aagtaggaaa 180
gagaaacata ataaatacaa aaatatgata aagggatata atgaaataaa aaatgttaat 240
acacattntt atgtattttt attattgatt aaaatttatt anaacgttag agattctatn 300
tattgttaaa tgtatntaac tcataattct attattntta anaagtttta attaacaatā 360

aagaatattt taaaataata tatggatctt tnttcacaat aacaacaatg aaattcanac 420
 ttaanatttc atgct 435

<210> 18978
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18978

ttgaaaatat aatatcttga tttctaaaat acccattgtc tctccctctt tgtaaacatc 60
 aaaaaggcca aagtgcgcaa aacatgaata atttaatcat acacaaagca taatttgtaa 120
 aacaaacata taagattctg atacatacat aaagaaaaac atgaataaaa ccaaattgaa 180
 atgcaaacca cttagtcata taacacacac cataaatatc atgttcagtc atactaagca 240
 aatattaaaa gaaatactaa gttttcaaat gtcataataa tatagccaaa tacacggcta 300
 gaaaacaaaa tactaataat aatagtaatg tctaaactga tagtggtggt ggaggggaaat 360
 taatgtagtc acgaatgatg gtgaaatctt cttcaacctt tgtgatcctt gagt 414

<210> 18979
 <211> 418
 <212> DNA
 <213> Glycine max
 <400> 18979

aatcttatcc aatatatgat atgtgccatg atacgaacca tattactata gtgagatggt 60
 agtgactacg atgatagtga caatggtggt gatagttaca ctgacaataa tggatgatgac 120
 actagtagcg atagttacag taacaataat ggtggtgaca ttagtagtga tgatggctgc 180
 gacaacgaca atggtaatga gtgatagcag cgataatggt ggtgtttctt atggcgacaa 240
 tgggtggtggt gatgatggtg gtaatgatgg tggtgacaat agtagtaatg gtgatgggta 300
 ggatggtgac aatgatgacg acaatgatag tgatgagtgg tgagacactg gtggtgacta 360
 tgatggatat gatggtggag acaattgacg agtgacaatg atgtgatggg gttattat 418

<210> 18980
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18980

tggaacanat atattgagct cttgggtcccc ttagagattg tgtaaataatg tctcctactt 60
tatcattaga actaacgaat tcagtaataa cttccttaga aagaactttc tcttggacaa 120
aatgacaatc aatctcaata tgttttaatto tctcatggag tactggatta aaagctatat 180
gtacggctgc ctgattatca cagcatagct tcatttggtg agtatctcca aacttcaatt 240
cttcgaagaa gttgtttaat ccnatgagc tcacaagtgg ctacagccat agctctatat 300
tcagcctctg cactagacct ttgcacaaca tttgcttctt actctttcat gagacaagaa 360
tttctccaac agacacacaa tatgttgaag tggacgccta tcnatggtga tcttgccatc 420
tgcttgcaaa tccactatt 439

<210> 18981
<211> 294
<212> DNA
<213> Glycine max

<400> 18981

cttcatcaat ggagtccttt gcttcttgaa gatcaatgac agtggaatgc aaaaggagga 60
aagggtgattg gagatgccac ttcaaggaga agagagtcaa gaacaagttc accaccatat 120
gaagccatgg ataagagctt gaaagttgga gaaaatgagt ggagggagag ggagagaatg 180
ggcacgaaat ttatgcctcg aatgaagtct aaaatttgaa gtgtaatttc tcaaatgatc 240
aaagtagaaa taatgcacac aaaaagcctc tatttatagc ctaagtgtca catg 294

<210> 18982
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18982

tgcattgattt acatctccct ctntctcaag caaattcttc ttgatatcat caaatcttc 60
atgatttatt aaagaatttg aaaataaaga ttttgaatta ttttgtgatg aacatgggat 120
tgaacataat ttttctgcac caagaactcc tcaacaaaat ggagttggtg agaggaaaaa 180
taggtcattg gaagaaattg caagaacttt attaaatgat acttctcttn caagtatttt 240

tgggctgaag ctgtcaatac tgcattgtac atcatgaata gagccttgat aagacctatt 300
 ntaaagaana ccccatatga gttatttaac ggtagaaaac ctaatatctc tcatctacat 360
 gtttttgggt gcaaagtgt tgtacttaat aatggtaaag ataactctang aaaattcgat 420
 gcanaatctg at 432

<210> 18983
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18983

tgtcaaagaa tccaacctct catggtagaa gcaaacacat agaaacaaga tttcactatc 60
 ttagggatca agtgaacaaa gagaaactga aagtggagta ctgctacaca tttgatcaac 120
 ttgctgatat ttttaacaaa cccctcaaag gggagaggtt taaaaatgta aggggcataa 180
 ttggcttgat gaacttanga gatcagaata agggaggggtg tgagagttaa attnttggtt 240
 gtgtggggta gaattgtttg tgctttgaat ataagagaga gtaacagaat ttttaaattc 300
 ttgtataagt actagcctaa gtgtgagngg ttatttactc tgttttgctt gtataaangg 360
 catacatata tcttaataaa gaggatttat tcattctatc attttcagtc tct 413

<210> 18984
 <211> 303
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18984

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 tcagattcag gcacataata tatcgagacg ctcgaaatta aatagcggaa gctgtcgaga 120
 tattcanatg ctcatctatt ttcactcgga ggtccgagtc gagcgcataa tatatcgaga 180
 tgctcgaaat tgaacaacgg aagctctcga gaaattcaca tggtcataac tgttgacacg 240
 gaggtcagct tcacggcgcg aatatattga gacgctcgat attgaacaac agaagctctc 300
 gag 303

<210> 18985
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18985

tarqcatcca ataccctgat gaggatgtcc catatgttct taaaaatgga ctgattcatt 60
 tgcttccaaa gtttcatggc cttgcaagtg aagacccgca caaacatttg aaagaatttc 120
 acattgtctg ctcaaccatg aaacccccag atgtccaaga ggatcacata tttctgaagg 180
 cttttcctca ttcattagag ggagtggcaa aagactggct gtattacott gctccaaggt 240
 ccatcacgag ctgggatgac cttaagagag tattcttaga aaaaatttnt cctgcttcca 300
 ggaccacagc catcangaag gatattctcag gtattagaca actcagtgga gagagcctgt 360
 atgagtactg ggagagatta agaaactatg t 391

<210> 18986
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18986

aaataagccc tccatcagtg ggaccttaag cttcattgga taatttcttc atttggttat 60
 gatgaaaacc ccatggatca atgcatatac cacaagggtca atgagagtaa aatatgtttt 120
 cttgtttcat atgtagatga tattntactt gcagtcaata atcaggggtt gctaaatgag 180
 gtgaaacaat ttctctctaa gaattttgac atgaaggata tgggtgatgt atcttatgtc 240
 attgacatta atattcatag agataaacct cgagggtattg taggtctatc acatgaaatc 300
 tatattaaca acaattttaga gagatttang atganagaat gtcaccaag tgcgctccc 360
 att 363

<210> 18987
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18987

agctttgaat ttactattca atggagtga caagaacatc ttcagactga tcaacacttg 60
cacagtggcc anagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120
gaagatttcc agattgcaac tcttggctac aaaattcgaa catctgaaga tgaaggagga 180
agagtgtatt catgacttcc acatgaacat tcttgacatt gccaatgctt gcactgcctt 240
gngagagagc ataacagatg aaaaacccgt gacaaagatc cttacatcct tcccaagag 300
atttgacatg anagtcactg caatagagga ggccaagac attngcaaca tgagagtaga 360
tgaactcatt ggttctcttc 380

<210> 18988
<211> 409
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18988

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actagtctcc actttctagg taaacttcgt aagattttat caacatgatc ataattatca 120
taatgtatac ctagagagcg gagctcgttc agaatgattt ggaagtttcc aaacatgggt 180
tgaatatctt ctccctcttc catattaaag agttcatact tatgtgtcag aagggtcaac 240
ttgttacggt ntacgttaga ggacccttcg taggtaatgg ataagggtatc ccacatttgt 300
ttggcgcttt tgaagttgtg aactttggaa tattcttgcg cgttagttga taagaaatat 360
agacttatga tcatccatcc atttgcctt ggggatcttg ttcttctga 409

<210> 18989
<211> 388
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18989

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atagcttccc cattgggtggc agcaaccacg gtggagcctt tccagtggac cgcggcggt 120
cagctcgcat ttgacctctt gaagaaagcc ttgttcgaaa ccccggtact tgccttgccg 180
aatttctagc taccatttac agtcgagacc aatgcttctg ggggtgggcat ggggtgcaatc 240

ctctcttagc agggccacac aattgcatat tttagcaagc catttttgcc taagcttcaa 300
 cgatcgtcca cttatgtccg agaattgttc gcagtgatgg cggcgggtcaa gaaatgggtg 360
 caatacctcc tcggtaacgg gttcatca 388

<210> 18990
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18990

tctaatttac tacattcatg caagacttaa ttggtttcct ttnttaacaa attgaacatt 60
 ttgtaaagac aagggtctaa ttataattga aaaaaagaag attgtgttta attaattaat 120
 taccaaaggt gaaggagctg aacattatgc ctaaagaatc agagagctct cggtaactct 180
 tgtacatctt caagtccact ttgcgaaggt aagggtgctcc atccatgcta actttgacaa 240
 agcttgcatt agggctgctg ttcttctcgc tctcttctcc aacgctcttt tgcacagcca 300
 acatgttctt ccggaaggac cgcacagggt gccaacccac cacctgcgtc ctacacattt 360
 caactcatca atatcactct atatattatg atcaattaat acgcatcatg aacatatatg 420
 gcaatcatat aacgaagtta aaata 445

<210> 18991
 <211> 333
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18991

ctaaaaaatc ctatatttct aggggtaccct acctatatta tggagcccta aatacaaggc 60
 ccaaaaaataa tgaaacctta atctaattt tacaaaagat agtgggctcg tacttagccc 120
 atgggcccac aatctaccct aagggtcata aaaaccctag ggcttctct tgcattctctg 180
 gcccaatcta cttggagttt ctatccaatg cccttgcggn gtaagattgc atcattccct 240
 cccoctagaa gaggatttga cctcaaatcc cgaggctctt gaactttggg ctttttttct 300
 cacactatan aagaacaaaa catatgtata gtg 333

<210> 18992

<211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18992

tggaaaccas cttttacgat atgataagat tgtagttta aggtaatgat tgaaattaas 60
 tttaaaaata taltcgattt tatagttata aaaaatattg taacctacat ttaaatctag 120
 actattatca gattgctagt gtaagataat gattgaaatc aaatttaaca atatattaca 180
 tttggtagtt ataaaaaata ttgaaaccaa aatttaagat ttanaatata tctattaatt 240
 catatgttct aattntttta cgagtatggt tttagagnaa aaaattcatt taattttatt 300
 acaaaat 307

<210> 18993
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18993

agcccanncg ttaggcctta attttgggaa caatcncgng nattggcaaa gaagacatca 60
 tatgccaagg gaacaatttc ctctatcac tggaggtata tacctagggt aagagcgagg 120
 ttgattcata tttctaaaaa ttgagacaa aagttgacct aatagcttc tacaatcttg 180
 tcaagataag ttgcatcgag gatgatgaag tcgtccctat atacttgtaa ggtctcaata 240
 actatatata cccccgaaag aaaactactt ctttgacaaa gacggtgttg cactattaga 300
 aattacactt tcaacatcgg ttatttaggg cattctacat cggctctaan accgatgttg 360
 aaagtgatga tggtgaatgt atcatcggtt acatcggttt taaaaaccg atgttaacat 420
 anatatgata acatcggttt tctaaataat cgatgtaaac ac 462

<210> 18994
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18994

accataagag ccttagatat tngttingatc aaaaagagct taacatgagg cagaggagat 60

ggtagagatt cctttaagat tacgattttg agcttagcta tcatccaggt aaagccaatg 120
 tagtagctga tgccttaagt agaanatccc ttcaaatgtc tgctttgatg gttagagact 180
 tggatctctt anagcagttt agagacatga gtttggcatg tgagatcacc tctaatagca 240
 ttaagttggg tatgttgaga gtcaccagcg aactcttgag cgagattcgc gggggtcaga 300
 agtctgaccc attcttgta actcagttag agtccatagt cgcanggaga gagagatttt 360
 ttagagtggc tactgatgga gtcttg 386

<210> 18995
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18995

nttgttttca atgacgagcg tctcgaaatc ctacgggaca ctattggaca tccgagtga 60
 aagttattgt cgtttgaatt tgttttagagc ttatgttttc aattacgagc gttttgatat 120
 cccacgggac acaatcgga atccgagtta aaagttattg tcgtagaat tttctcatag 180
 cttccgtttt caattacgag cgtctcgata tctacggga cacaatcgaa catccgagtc 240
 aaaagttatt gtcgtttgaa tttgtcaga gtttcagttt tcaattacga gcgtctggat 300
 atattacaag actcaatcag acatccgagt taaaagttat tgcgttnga ctnttcatag 360
 agcttctgtt ntcaattaga gcgtcttcat atattacgag actata 406

<210> 18996
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18996

ttatcatttt actanattca aattgncata acatttcact cagatgtctg attcggagac 60
 ataatatatc gatatgctag aaattgaaca acggatgccc tcgggaaatt tgaatggtca 120
 taacgtttca caccgatgtc cgattcgggg acataatata tcgagatgct cgaaattgaa 180
 cagcggaagc tgtccagaaa ttcgaatggc cctaactttt cacacagaag accgattcgg 240
 ggacataata tatcgagacg ctcgaaattg aacaacggaa gctctcgaca aagtcgaatg 300

gtcataactt ttcacacgat gtccgattcg cagacataac tcactctaaac gctccaaatt 360
gaacaacgga agcaatcgac aaatttgaat ggaataaca 399

<210> 18997
<211> 306
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18997

ntgaccattc gaatttcgag agtgcttccg ttgttcaagt tcgagcgtgt cgatatttta 60
tgtccacgaa tcagacatcc gagtgaaatg ttatgaccat tcgaatntgt cgagagcttc 120
cgttgttcaa tttcgagcgt ctcgatatat tatgtccccg aatcgaacat ctaagtgaaa 180
tgttatcacc attcgaattt ctcgatagct tctgttggtc aatttcgagc gtctagatga 240
gttatgtacc cgattcgaac atccgagtga aatggatatga ccattcgaat ttctcgagag 300
cttcgc 306

<210> 18998
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18998

agcnngnnca ttttctttat cccatnngaa ctntnngnc tttntcagta agttcatgat 60
cggcctagcc ttctcagcta tccaaggtag aaatcttatc aaagaggcta tgcgtcctgt 120
gagtctttgt atctctttga aagtcttcgg actcctcatc tcaatgacga cttgacattt 180
atctagatta gcttgtatgc ctctttggga aagcataaaa ccaaaaaatt ntcctcctcc 240
aatcccaaga acacattttt agagggttaag tcgtatgtat gtttttggat ttgtgaaatg 300
atctcggcta ggtcctcaac atgggacttg actccatngg atntgaccac tatctcatca 360
acgtacacct ctatatttct acgaatnnta tctttgaaga tcttatccat g 411

<210> 18999
<211> 248
<212> DNA
<213> Glycine max

<400> 18999

taccagctg gccttgaatc agatatccgt gcctatcgca aaggtttggtg ggttggtgctc 60
ctttggtgac caccatacag acctttgccc ttccatgcag caacctggag caattgagca 120
gcctgaaact tatgctgcaa atatttataa taacacctcc caacctcacc agcaaaatca 180
accatagcag aacaattatg acctctccag caacagatat aacctggat ggaggaatca 240
ccctaacc 248

<210> 19000

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19000

agctttataa ttttgtttta aatccaagcc cataaataat ataaaatcta gataagataa 60
gataagatct agatgaaata atatctagat gagatcaaat ctagataaga taagataaga 120
taagatctag atgaaataat atctagatga gatcaaactt aaataatata tagatgagat 180
aaaatctaga taagataaga tctgatagaa taaaattgtc tgctcttttc aagtccaagc 240
ccaattccgg attcaagccc aattgcttat aattctcctg aaattaaatc anaaacacaa 300
aattagtcca gtaggtccaa ttgataaaac tgcatattan attgacaatt aagcctaata 360
agtaattaaa atgatgacaa aaagggttaa gaaatatgag aaaatgatga cacatcanat 420
cccctcacac tta 433

<210> 19001

<211> 294

<212> DNA

<213> Glycine max

<400> 19001

tatagcttac tgattatcca caaaaagctt cactgcatca ctatccttga ttcttaattc 60
ttgtaataat gtgtccaacg agacagctag gcaagcactc attgtagctg gaacataactt 120
agcttcacat gttgataaag ccactatgga ttgcttctta gaactccatg atattggtgt 180
tgcaccatac atgaatatgt aacctataga actctttctg tcactctgtg ctctctccca 240

atccgcatca atatatccca ctaattcctc tgagctgatg ctgtctatat ttgg 294

<210> 19002

<211> 273

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19002

attttctcaa ggaaacctgg attacctttt ctttctcggg ctcttcagca ttgctcaaag 60

aaccttctga tactttcccc ttttgtgatt gtaacataac catctctac aattaacctg 120

caatgtacac actgttgacc cttcaacgaa tgagctntaa cagaaagttc agtacagcgt 180

ccatctaata tccaagctcg gagggttaaca aaacatgcac tcanaccacc aagatccang 240

ccactggctc gaacacatnc attcaatcca aca 273

<210> 19003

<211> 461

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19003

caagcttgat cttttattct atatatgaca gccaatgggt gagtcccgtc caggtagtcc 60

cgaagaanac cggcctcatc atgataaaaa atgagaagga ggagctgatt cctattcggg 120

tgcagaacag gtagagagtc tgcattgact ataggaggtt gaaccagggtc accaaaaagg 180

accattttcc cctgccattc attgaccaga tgcttgaatg cctggcaggt aaatctcact 240

actgtttcct tgatggttnt tctggctata tgcaaatcac tattactcct gaggatcacg 300

acaacaccac attcaccagc cccttcggaa ctttggccta tagaaggatg cctttcggcc 360

tgtgcaatgc ccctggtacc ttcaagcgga gcatgattag tattttcagt gattttgtag 420

acnattcata gaggtgttat ggatgatntc actgatatgt g 461

<210> 19004

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19004

tgtcgacctt gctctagcct ctggagaaat ttttgaagga gaatgtttca agtacataaa 60
 ggaatgttnt gaaaatggca cattgcatct cattgggcta ctgagtgatg gtggagttca 120
 ctccagactt gatcagttgc aggtgattat ttgggggttg agctgttttt ccttcattgtg 180
 tattcagttt attctttcta actaactact tttgtacagt tgttgcttaa aggagttagt 240
 ggcgcgggag ttaaaagagt cgggtgtccat attcttaccg agggcggtag tgggtgggat 300
 ggctcaagtg tgggggtttgt ggaaaccctt tgaaaatgat cttgcaaact cgcgcgcana 360
 aggtgtcgat gctaggatag catcacgtgg aggtcgtatg aatgtcacia tggatcg 417

<210> 19005
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19005

agcttgacat ttatctgggt cgcattngngn agcagattga tagcgtgatc tgtggatcga 60
 gatggcggaa ggtttgtaag tgggtgaaac aggcattgagt atttcgtaag taactcagaa 120
 atctcgggta agatgggtgg tgttgtagct gattgtgtgt ttgtttccac tctaataatgg 180
 aagaagggtgc tagaggggct cctatgtaga agacgacgca gttgcgaggg agacacgggt 240
 tcacctattt gctcacgttc ccctgtaac tccacaagct taccctcagt gatgaatttc 300
 atggatggag acgtgtagtc tgtcagaacc ggtcctaatt ttntgagcca ttcgactccc 360
 agaactacat ctgtgccaca taagggtagg atgtgaaagt ccaccatgaa cgtatgctcc 420
 tgcacctgt 429

<210> 19006
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19006

tgtttacacc taaatacaat catggtattn atactataaa ttaagattat attctaacat 60
 tggaaaattt ttacataatt atctaataat aattggaaaa tttttacata attatctaatt 120
 cataattgga aaaattctac ataattatct agtcataatt cattatatat agcataaatt 180

ttttgacttt taaaataatt taaacagtta tttaattata taattaaatg ataataaaa 240
 aatatttcac attgtatcag cattaacctc ctgcttccgg cttttgtgta caacatggag 300
 tctttaatth tccatcgatt atgcggctga tactttgcca cacataaatg tataagaaat 360
 atctttcaga tgttgactag tagttgattc attatthttac ggggccagat tattctgaac 420
 atccattcca ctgggtgcaat g 441

<210> 19007
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 19007
 acaacgagat gatgcgctcc atgagaggggt ggatcaaag gagaaatagag atcataatga 60
 agaagaaagg aggagaagag ggaatgatgg tgttcctaga caaaaccgaa ttgatggat 120
 taaactcaac attcctccat ttaaaggaaa gaatgatccg gaggcctact tggagagggga 180
 gatgaaaata gagcatgttt tctcatgcaa caactatgag gaggaccaa aggtgaagct 240
 tgccgccacg gagttttccg actatgctct tgtgtg 276

<210> 19008
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19008

agcttgngtg tcntgtttat aacttcacaa gagatatttg aaaaaggat tacaaccatt 60
 tctctatctc tttctcttat ttntatatcc ttatgttttc atatgataag aagaanaata 120
 aattgaatta agaaaaaaaa ttgatcataa tgatttatcc ctttaggtat aatacaatac 180
 caaaattgaa atatttatag catattaggt ctacaatttt tattcttaca atcttaaaaa 240
 ataatcatth tcattatgta tgtcttcta gatccaatat gcaataaata tatcaatttt 300
 agccttccac catatctaaa ggaataaacc atntaataat aatgactatg caattatatg 360
 tgaatgataa aattagtttg tgggtacata atcacttata naaatcatat anttttatat 420
 tttaatttaa cctataaat 439

<210> 19009
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19009

tgttgccatt gaattcatgt gctaceacca agccatgttc gggtttgcac cctatggccc 60
 ttattggcgc caactaaaaa agattgtaaa cttagaaatc ctctccaatc gccgagtaga 120
 gcaactacag cacgttcattg tctcagaagt tcaaagttca atcaaagagc tcttcaatgt 180
 ttgggtcaagc aaaaagaatg agtctggcta tgcgttgggtg gatttgaatc aatggttntc 240
 tcatttgaca ttcaacacgg ttcttcgagt ggctcgttga aagcgacttt tcngtgctac 300
 aactatgaat gatg 314

<210> 19010
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19010

ttctaaatga taggctcaga atgcagaaga agtagcaatc aatttaataa tgttctttat 60
 acatgcaaga caaaattgat tgcaataata aatgagataa gggaagagag aaatataaac 120
 tcgatttata ctgggttcggc cactccccgt gcctacgtct agttctcaag caaccactt 180
 gagattntcc tttctctttg taaaaccctt ttacaaagtt tgaaccacac agggacaacc 240
 catcccttgt gtccagaaat tcttacaact taagagacc ctagtctctt aatcaatctc 300
 tttgattaag aagaagaaga agaagaattc tctcttttaa gagaaagata atacaatgaa 360
 gttccataaa ctcttaatat atttg 385

<210> 19011
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 19011

tctgttctca attacgaacg tctcgatata ttacgggaca caatcggaaca cccgagttaa 60

aagttattgt cgtttgaatt tgctcagagc ttctattgtc aattacgagc gtctcgatat 120
 attacgggac tcaatcggac atccgagtaa aaagttattg tcgtctgaat ttgctcaaag 180
 cttctgtttt caattacgag cgtcctgata tattacgtga ctcaatcgga catccgagtc 240
 aaaagttatt gtccggttgaa tttgctcaga gcttctgttt tcaattacga gogtctccat 300
 gtattacgag actcaatcgg acatccgagt aaaaetra 366

<210> 19012
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19012

aaatgtttca aacttttatg gtcagtgtaa accacaaagg gcctgcccac cagatagtgc 60
 ctccagcgtg gaatagctaa cactaaagcc atgagctcct tttcatcgc agattttgat 120
 aaatcgccct ctgatcaagc tatgctaact aaagctatag gctgcctctg ctgcatcaaa 180
 acagcaccaa ttcctctccc cgccgcatca cattccactt caaacagaat agagaaatca 240
 ggtaacacta gtactggagc tatagtcatg atctgcttca gatgattgan agcctccaga 300
 gcatcttttc cccaaataaa gttattcttc ttagtcattt cagtcaacgg gttagcaatt 360
 gtaccataat cctttgataa tttctgtata accc 394

<210> 19013
 <211> 323
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19013

ccaaacgcac ctttcttcaa acattcggtc gtaggacttg ctataacgct aacattctgg 60
 ataaagcggc gattacatga tgcaagacca aggaaagatc tcacgctacg aactggtaga 120
 aggctcggcc aagtcttgat agcatgcact tttgtttgat caacggatac tccatcttta 180
 gacaccacat atccaagnac accacacttt caaccaagaa agcacactnt tccctcttgc 240
 catagagtnt tcgggctctt agggctctcaa atatttggtt canatgagtg aatgccct 300
 ctatagatnt gctatacacc aat 323

<210> 19014
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 19014

tgtcctcggg gacaaacaca attgaataag ccccttcgag ctttcacag gcctcaacga 60
 ttctcaaaat gaagggctctg tgtttggaag tggcgatgag gtggagaaca acctcggtgt 120
 cggaggtagt gttgaagatg gacccgctgt cctcgagggt gggtcggagg gtgcggtagt 180
 tgacgagggt gccgttgtgg gccacgccga cggagccgaa gcggtagccg gcaacgaagg 240
 gttgcacgtt tttgagcatg gattggccgg cggaggagta gcggacgtgg ccgatggcga 300
 ggctgccggg gagctgggtc agcttcgact ggttgaacac gtc 343

<210> 19015
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 19015

tctatagaag gttcgttcct aatttctcta caattgcac acctctcaat gagctgggtga 60
 agaagaatgt ggcatttacc tgggggtgaaa aacaagagca agtctttgct ttgctcaaag 120
 aaaagcttac taaggcacct gttctagctc ttcctgacta ttctaagact tttgagctag 180
 aatgtgatgc ctctggagtg ggagttggaa ctgtattggt acaaggtggg caccct 236

<210> 19016
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19016

tgtcttataa gctaaaatct acttatatac ttaactttta tagatatac ctcactaac 60
 ttttccaaaa gttgaagcaa ataaattaat ttaacttctt atagataaat ttatccagga 120
 tgatcttggt atgtatttct tctttgggag attgtaagat tacccttaac ttacaatntg 180
 aatntatatt ctgaattatg tgagttatat ataagtgggt ttatgtttga taatggatnt 240
 gtttatttta gctctaaata tattnttatt cttgtatctt ttttagtctt tataaaaatat 300

gtttatttta tttttgtgtt ntagatagta ctttgaacag taaaaaatat tctaaacaac 360
gaaataaaga ctattttaaa cactttacag ggacaaaaat g 401

<210> 19017
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19017

tcttctccat ttgatcacgc gatcttatat gatcatctcc accaccccaa aggaacctac 60
gttgtatgcg caccaatttg tccaccaccc ttatgggtac cctgaaaaaa gaaaagaaat 120
aaattggaat agaggttagg attgatttta taagagtgc tcttccccca naagatatgt 180
gtctctgttt ccactttgct agtttcctct cgtacttata gattattgng tcccacaact 240
gacacctcct tggatttgcc ccagtgggca tccccaaagta aacaaaaggg atggacagca 300
ggctacaatt caagtaattg gctgcattnt gcttccacga ctccgacata ccaatngatc 360
cgaatctgct ttttgcanna attattgaga cctgacacca attcaaaggt cctcaagatg 420
gctttgatca ccctgatgtt ctncattgat 450

<210> 19018
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19018

ttagcttttc ntttcccttg anacacnnga gggacccgag gtcattatga atgacaaatt 60
ccttgtgata aaggtagtgt tgccatgttt tcacagccca tattaatgca tacaactcct 120
tatcataagt agaatagttc aaggtaggac cacttaactt ttcactacca taagcaatcg 180
gatggccttc ttgcatcaac acagcctcag tccccacatt cgaagcatca cactcaatnt 240
caaaagattg ttgacagtca gacaacgcaa gtatggaggc attagatagc tntttcttaa 300
gaacattgaa agcatcttct tgattctctc cccattcgaa accaacatta tgctagagca 360
cgtcattgac aggtgctggc aatgtgctaa aatccttcac atatcatcta t 411

<210> 19019
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19019

gcctctatag aggtgagctc tggagagctc aatgaggtcc ttttgggtga ttttcacca 60
 tggatatgca gcggaagata aaggagaaaa gctgatagga ggcaccatcc actagggaat 120
 aagccatgga aaaaagagct tcaccaccaa gagagtgtct tggataagaa gattagagag 180
 gaagcttcat tggaggaaaa gaaagaaaga gaaaggtggg ggtgatgcaa tcttaccnc 240
 caagggcatt ggatagaaga ctccaagaag attgggacaa agatgcaaga gaatgcccta 300
 nggttctcat gagccttang gcagatttcg ggcccatggg ctaagtatga gccacttat 360
 ctttgtatat attagactac gatgtcatta tatttgatcc ttgtatttag ggctccatat 420
 tgtagatagg gtaccctaga aatat 445

<210> 19020
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19020

tgaataacgg aagctcttga gaatttcaaa tggtcataac ttggcacact cgggtccgat 60
 tcaagcttat aatatatcga agacgcctac aattaaacat cggaagctct cgagaaattc 120
 gaatggtcat aattttccaa acggatgtcc gaatccggcg cataatatgt ctagacgctc 180
 gaaatcgaac aacgaaaact ctcgagacat tcatatggtc ataacttttc ctcggatgtc 240
 cgattcagac gtatcacata tagagacgct cgtanatgca catcggaagc tcttgtgaaa 300
 ttacatggtc ataactttta cacggatgtc cgattcaggc gca 343

<210> 19021
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19021

agcttttttg ctctatttat aggagctgac aagaatatct tcagacttat caacacatgc 60
acaggggcca aagatgcatg ggagatcctg aaaaccactc atgaaggaac ctccanagtg 120
aagatgtcca gattgcaact attgggtaca aaattcgaaa atctgaagat gaaggaggaa 180
gaatgtattc atgacttcra catgaacatt cttgaaattg ccaatgcttg cactgccttg 240
ggagaaaaga tgacagacga aaagctgggtg agaaagatcc tcagatcctt gcctaagaga 300
tttgacatga aagtcactgc aatagaggag gcccaagaca ttgcccacat gagagtagat 360
gaactcattg gttccttcaa actttgagct aggactctcg atagggctga aag 413

<210> 19022
<211> 327
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19022

tcatgattgc ctaagtgtgg accctcaagt gcaatccttt attcttctct ttnttcggag 60
cccatgaat gtcattgcct agcgtgttc atgtgtcttc caccttcag cttggtgcta 120
tatttcatga ttgcctaagt gcggaccctc aagtgcaatc ctccattctc ccccttcttt 180
ggagcccat gaatgttatt tcctagcggg gttcatgtgt cctccacctt cgaatttggt 240
gctatatttc atgattgcct aagtgcggac cctcaaggca atactccatt ctcacacttt 300
cttgagccc catgaatgtc attgcct 327

<210> 19023
<211> 426
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19023

agcttttata tatatgttca tagtgtatgc taactttgtc tccttcttta attccaatcc 60
ccactcggac ttccaaaata gcagattctg aatatgataa aaagaaagat ccacacatta 120
atatttaagt tttatagtta ttccaaccaa ctggggaaat ttagattcat catanataga 180
ttagtaggct aattttgcat atctgacctt gcagagtata taacagaatt tgggccgatg 240
tacttatata tganaaatgg gtaggaagaa actaaagata tggaaagcaa catcacctga 300

taaaggtatg tgattgactc aacggaagat cttctccaat ggcaacaagg atntgccatt 360
 caacaagatc ctgaccaaca atcatttttg aacatggatg atcaacctgt attaacatcc 420
 cccatg 426

<210> 19024
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19024

tgccccaatg attgcatact gtacaggcat gaattttatg taatgtccaa atgccctatc 60
 tatgggactt cacggtacga agtgaacgat gaagaacaca gtagttctga tgaaaactcc 120
 aacaagggcc cccaacaaa ggttttgtgg tatcttccaa tcattccaag gtttaagcgt 180
 ccttttgcta acgaggacga cgcanaanac cttacatggc atgcaaattg aaggatttct 240
 gatggaatgg tccgtcatcc ggctgattgc tcccagtggg agaagattga tggtttgtat 300
 ccggatttct ggaatgagcc aagaaatctt agacttggac tagccagtga tggaattgaa 360
 tcatatggca ccttaagcac tcaacatagt tcat 394

<210> 19025
 <211> 398
 <212> DNA
 <213> Glycine max
 <400> 19025

agcttttgtt aatatattcg ttctgaactt atcttggat taattgtttc ttaaaaagga 60
 agtgtacaca aataacattt taagaaaaaa aaacttttaa aaaacaactt ttaatgaaga 120
 aaagtaaaaa taaaagaaaa agaaactgta gcaaaaagtt aatattatga tcttttactt 180
 ctatttcttt ttttccaaat tataaaaatt gaaggacaca caatttaaaa aattcaactt 240
 aataagtaat ttctaactta aaagatattt ttattttcta tgtctatatt gttaaaaagt 300
 aatttagtta aatgcattca aaatattttt tatattatta ttaaatttta aattgagata 360
 ttaattaaaa cttgtgactt cttataatta ttacttta 398

<210> 19026
 <211> 297

<212> DNA
<213> Glycine max

<400> 19026

ccttatcgac gattaacaac agcttttaaat gaaaggcagg agaatgaatg ccccccgaaa 60
ccattaactg gaaacgaagt tcatgattgg gtaaacgaca ttgtaaccgt gtttgggaag 120
tcccatttga agacatcatc tcgcaacaac atgtggaaga aacgcttaat attctttgat 180
cttcataact ggtctgatct acatgtgcgt cattgtctag atgttatgca tgtggagaaa 240
tatgtgtgtg atacgttaat tggctctctt cttaacatta aacggaatac aaatgat 297

<210> 19027
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19027

agcttttgat tccttcaaac aacaataact ttttactcgg atgtctgatt gacacctgta 60
atatatccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120
tttctacttg tatgttcgat tgactctggt aatatatcga aacgctcgaa attgaagacc 180
gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtttga ttgagtcccg 240
tactatatcg agacgctcgg acttgaatgc cgaagctctg cgcanattca aacgacaata 300
acttttttcc tcggatgtct gattgagtcc cataatatat cgagacgctc ggacttgaat 360
gccttagctc tgagcaaatt caaatgacaa taaatnttta ctcggatgtc taag 414

<210> 19028
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19028

acacatagaa tactaagctt cggattcaag tccgagcgtc tcgatatatt acgttgantt 60
tgtctgacat ccgagtaaaa aagttattgt cgtttgaata tgctcagggc ttccgtaatc 120
aatttcgagc gtctcaatat attacgggac tcagtcagac atccgagtaa aaagttattg 180
tcgttggaat ttgctcaaag ctgtcgcatt caagtccgag cgtctcgata tattacggga 240

ctcaatcaga catccganta aaaagttatt gtcatttgaa tttgctcata gctaacgcat 300
tcaagtccga gcgtctcgat atattatggg actcaatcag tcatccgagt aaaaaagcca 360
ttgtcgtctg aatttgc tca tagcttcggc attcaagtcc gagcgtctcg atatattacg 420
ggactcaatc 430

<210> 19029
<211> 370
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19029

agcttttctt ttgtntgatt ttcatacaac aacctgtctg gtttggcgcc tggtagccgt 60
caattcagct acttcaatta cacgtctttc ttgggaaacc ctgacctctg tggcccttat 120
ttgggtgctt gcaaagatgg ggttgccaat ggcgcacacc aacctcatgt taaaggtctc 180
tctcttctt ttaagctgct acttggtggt ggggtgctac tatgttccat tgcttttgct 240
tgggctgcaa tattcaaggc ccggtcactg aagaaggcca gtggggctcg tgcattggaag 300
ttgactgctg tcaacgtttg gacttcactt gcgatgatgt tttgcattgc ttgaaggagg 360
ataatattat 370

<210> 19030
<211> 453
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19030

tgcanaaccan atgctcacca ctgctagacg aaaagttctt tttgtggttc atataaacct 60
cctgctctaa atcaccatta agaaagattg gtttcacatc catttggtgc aactcaaggc 120
caaatgaac aactaatgta aagataatac caagataacc tttattagat acaggagaaa 180
atgtctgtgt aattgattca ttctttttta gtaaaccct tagcaatgag tcttgcttta 240
tatctttcaa tgttgcttaa tgaatccct ttggtcttaa agacctattt actgccaatg 300
gcctttgccc cattangcaa ctctacaagg tttaaactc cgttactctg catgaaattc 360
atctcatcct tcatagcatc ataccatana tntgactctt tacaactcat ggcttgctca 420

naagtttcgg gatcattttc aactgcaata tta

453

<210> 19031
<211> 372
<212> DNA
<213> Glycine max

<400> 19031

attcttaata gaagacctta taaaaaaaaat ttaaaaaaaaa atctttatga actatggaga 60
aaaagaaaac taaatctaaa atatcttaaa gtgtgggggt ggctaataaa aggtaatatc 120
cctattaata agaaatgaaa aattgaaaaa aatggtaatt ggattttggt ggatattttt 180
tacataatac tacttataga ttcttagttt gtaattcaga agtaactgaa atttctaattg 240
ttactattat gcaatctaga gatgttactt cctttgaaaa tctttttcct taacaaataa 300
atccgtaa at ctttatatgg ttgaaacaa actcccaaag cagtacacaa aaagttgatt 360
aagttattct tt 372

<210> 19032
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19032

agctttttctc taaattttaa atatgcatca aacattgcc a tgaaggatga agttgatgat 60
tcatggctat ggaattgaag atttggccac ttcaacacac atgccttgaa gttgttacat 120
gagaagaaca tgatgagaga tcttccaagc ataaaggaga acaatgaagt gtgtgaagga 180
tgtctccttg gtaagcaaca ccgatttcct tacgcaacag gcggagcatg gagagcgaaa 240
gatctattgg agctgatata tacggacgtt tgtggaccaa tgaggacgcc atcacatgag 300
aacaacaagt acttcatact cttcattgat gactttctcta gaatgacatg ggtatattnt 360
ctaataaaaa aatcaaaaagt ctttgagta ttcanaaagt t 401

<210> 19033
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19033

ttgtgccana atcccaactc accataaacc ttgacccggg atgagaattt ccatcgtcgc 60
cctcggaga aaacaaaaaa agaaaaagaa agttcccgat caaagatcgg aagaaaacaa 120 --
aaatagaaaa aagttcgcga tcaaatgatcg gaagaaaaaa aaagttaccg atcaaatgatc 180
ggaagaaacc accacttgaa gtggtccctc ccccttgatc gcaaaccaaa atcttgggca 240
ctagtacat tctcgtcccg cactaaacaa aaacagaaaa gggaaaggcc aaaacactca 300
gccaaatttc tcacaaaaac accattcccg aaaatgtcct attgatccat gatcatgcat 360
gtaatctttg atttgatagg aaatgatttt canaatcaag tcatgacata tctatgggtt 420
ggaattagga taaaacactt gcctatgtga 450

<210> 19034
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19034

agctngtaat attgaacaac ggaagctctc gagaaactca aatggtcata acttatcaca 60
cggacgtctg attcagccgc ataatatatc gagaagctgg aaattgaaca acggaagctc 120
tcgagaaact aaaatggtca taacttttca cacggaagtc cgattcaggt gcataatata 180
tcgagacgct caaaattgaa catcggaagc tctcgagaaa ttcaaattggc cataacttgt 240
cacacgaatg tccgattcag gcacataata tatctagatg ctcgaaattg aacatcaaaa 300
gctctcgaga aactcanatg ctcataactt atcacacgga tgtccgattc aggcacataa 360
tatatcgaga cgctcgaaat tgaacaacgt atggtgtcga gaaattc 407

<210> 19035
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19035

tgaatttgac aacagaagct ctgagaaatt caatgggttat tacttatcac acggaagtcc 60
gattcaggtg cataatatat cgagaccctc gaaattgcac aacggaagcc cttaagaaag 120

acaaatggtg ataacttttc aaaccgaagt ccgattcagg tgcataatat atcgagaagc 180
 ttgaaattga acaatggaag ctctcgagaa attcatatgg tcataactta tcacacggaa 240
 gtccgattca ggcgcataat ataccgagac gctcgaaatn gcacaacgga agccctcaag 300
 aaattcaagt ggtgataact tatcacacgg aagtgcgatt aaggcgcata atatatcyag 360
 aagcttgata ttaacaacgg aatgtgtcga gatattcaaa tggtcataac ttatgacaca 420
 gaagtccgat caggcgcata ata 443

<210> 19036
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 19036
 tcaagctttt atgcaacata tggagaggtt aatgaaacaa cgagatgatg cgctccatga 60
 gaggttggat caaatggaga atagagatca taatgaagaa gaaaggagga gaagagggaa 120
 tgatggtggt cctagacaaa accgaattga tggattataa ctcaacattc ctccatttaa 180
 aggaaagaat gatccggagg cctacttga gtgggagatg aaaatagagc atgttttctc 240
 atgccacaac tatgaggagg accagaaggt gaagcttgcc gccacggagt tttccgacta 300
 tgctcttggt tgggtggaaca agctacaaaa ggagagagca agaaatgaag agccaatggt 360
 tgatacatgg acggagat 378

<210> 19037
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19037

tgaatcggac atccgtgtga aaaggtatga ccatttcaat ttctcaagag cttccgtagn 60
 tcaatttcga gcttctcgac atattatgcg cccgaatcgg acatccgtgt gaaaagttat 120
 gaccatttga atatcttgag atcttccgat gtttaatttc gagcgtatcg atatattata 180
 agcctgaatt ggacatccgg gtgaaaagtt atgaccattt gaatttgca gagtttccga 240
 tngttaattt cgagcgtatc gatatattat acgcctgaat cggacattcg tgtgaaaagg 300

tatgaccatt tgaatttctc aagagcttcg ggtgttcaat ttctagactc tcgacatatt 360
atgcgcccga atcggaacatt cgtgtaaaag ctatgaccat ttga 404

<210> 19038
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19038

agctttatct taatattttc caaatcatca agaattctgt tgaaatcagc caattgttca 60
gtggctgttc ttgactctgt catcttgaag gtgtacaatt gttgcttcaa gcatagccga 120
tttgcaaggg actttgtcat atacaatggc tctagtttca accacattga ggttgttgtc 180
ctttctcttg caacttctct tanagcttta tctccaagca atagaatgat tgcacttcgg 240
gatttagcaa tcatctctga tttctccttt gagcttagag attcaaacat ctttcttctc 300
cctttaagag cttctgcata gccatgttga atcaagattg cttccatctt gattctccat 360
aaccgaagt cattttccct tanaacttct caatatcgta c 401

<210> 19039
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19039

agtattgcta tattctgatt attatgcctt tttttatggt tggcnttggc tatattaatt 60
ttatgaaaac agtctaagca atgctggtgt tttattggtt tggaactaaa cttaaactg 120
gttgtgctac agattaagtt ggacaaggaa aagaaaagtc tctcaattcg agagagaggg 180
atcggtatga ccaaggagga tttggataag aatctgggga cgaatagcaaa atttggaact 240
tctggatatgt atgttgcgga cattatcgct gaagtaattt ttgtttgtga tgtgactggg 300
aatatgttaa ttggagatgt gtgttatttc aacatttggt gagaagatgc caacaagtgg 360
agatctcaat ctgattgcgc agtttgaggt cagcttctac tctgttatct tgtggccgac 420
tat 423

<210> 19040

<211> 407
 <212> DNA
 <213> Glycine max

<400> 19040

tgtāggggtta aagtttcacg attgtcatgt gctcatgcat ttattgttaa cctgggctat 60
 acgagacatc ttgccaaaca aagtcaggtt cagcataact cggccgtgct tttcttcca 120
 tgcctatatgt agcaaagtga ttgatccagt aatgtttgat gāgttggaat atgaggccgc 180
 aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240
 cttgattgtg catctggtca gagaaatcaa atgttgtggt cctatttatc tatgggtgat 300
 gtaccgggtt gagcgataca tgaagatctt aaaagggtat acaaagaatc tatatcgctc 360
 ggaagcatct attgttgaga ggtacattgc agaaaaacca ttgaatt 407

<210> 19041
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19041

tactaagctg aaatgacatc gaagctctcg acaattccaa ggtataatan tgcacacgga 60
 aggtcgattc tagcgcatca catatcgaga cgctctaaat tgaaaaccgc aagctctcga 120
 gaaactcaac aagtcataaa ctagtcacac ggaagtccga ttccggcgca taatatatcg 180
 agacgctcga aattgaacca cacatgctct cgaagaattc caatgatcat aacttttctc 240
 acagaaatcc gattctggcg catcatatat cgagatggtc tgaattg 287

<210> 19042
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19042

agcttatata accacgctgc tccaccagc tcatcgagta actcatccac cgtgggtatg 60
 gggaagcgat cgcgcaccgt gatggcattg agagccctat agtctacaca aaatctccat 120
 gatccatctt tctttcttac cagcaagact ggggatgaaa atggactcga gctaggttgt 180

ataaaacctt tcgcgagcat agtagctacc tgttcttcga tctccttctt ctgaaagtaa 240
 ggatatctat atgggtctaac cggtcaccgg gttgagttag gcaatagatt gatggtatga 300
 tctgtggatc gtgatggtgg canggtcgtg ggaggttga agaggggaagc gtatntggtg 360
 atcaatgtat tga 373

<210> 19043
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19043

gatactgtga natagaaact aacctctaca cttataatat cttctccaaa ttgngcacta 60
 gattntgaaa taatgtgtga tgcaagtgat tatgcagtaa gagcagttct ggggtcaaagg 120
 aaaaataaaa tgtttcatgt catacactaa caagcaaggg tttaaataaa gctcaaataa 180
 attatgccac aactgagaaa aaattgcttg caatagtata tgctttggaa aaatttaaatt 240
 cttatttgat aggatctaaa attgtggttg ttactaatca tgctactata agatatttgt 300
 tagttaaagc tgattctaaa ccctgactta tccaatggat tctattgttg caagagtttg 360
 acttaaagat caaggatgaa aatggaagtg aacattatgt ggcagatcat ctgtccagac 420
 tgaccattga tgaggtgacc acacaataa 449

<210> 19044
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19044

taaaaagaat catgtaatag tagntntgtg atctctgatt taactaataa cttgtgaata 60
 gcatattcac tcttatctga ttttttgnta ttatctatct taccctatct ttcaagggtt 120
 ttggcactaa gaaggcccta tgggtgtttc cattgttttc aaaagaggat ttaaacaaca 180
 tacctgcact aaggggcatt gagttcccta cacgttcgga tgttgatgta tgaaagctgg 240
 gtagcttata ggtttgaaca ttnttttcat taaatgatgt catttatgct tacttcatga 300
 cagtgcagcg tanggcatga aagtaatact ctacttgatt gctgatgttt taaattatag 360

aatngtccag tagatgtata tatgtaatgt tcgattcaga atgtttgatt attcttataa 420
tctaagaacc tgtgatct 438

<210> 19045
<211> 406
<212> DNA
<213> Glycine max
<400> 19045

agcttctgtt gttcaatttc gagcgtctcg atatattata tccccgaatc ggtcttctgt 60
gtgaaaagtt tgaaccattc gaatttctgg acagcttccg ttgttcaatt tcgagcgtct 120
cgatatatta tgtcccaaaa tcggacattt gtgtgaaaag gtatgaccat tcaaatttct 180
tgagagcttc cattgttcaa tttcgagcgt ctagatgagt tatgtccgcg aatcggacat 240
cctatgaaaa ggtatgacca ttcgaatttc tccagagctt tctttgggtca atttccagcg 300
tctagatgaa ttatgtccgc gaatcggaca ttctatgaaa agttatgacc acttgaatat 360
ctcgaatgct ttccgctgtc aatttcgagc gcctctatat tttatg 406

<210> 19046
<211> 455
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19046

ntggagtttc caagtgccaa ttcgtcttct tctttagtc agtcttcttc tggcttcaat 60
tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180
tcatagttgc ttccatcgag aattggtggt ctgttcaactg gtccgccttc tttctccatg 240
ttcatcagaa tttatctccc tagatctcac tctgtgattt ccagtgttgg ctctgatacc 300
aattgaaatt ctgataccag gggacagatg tcgtacaaga tgtcacgaca tcacgcttca 360
gaacatgcag attatatgtg tccgtatgaa cagattatac aagtaaataa cacaagagaa 420
ttgtgtaccc aggtcgggtgc tacctcacct acatc 455

<210> 19047
<211> 361

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19047

tactaagctt ggacatcaac taacttcatt ccctatgcat attactatct ctttatatct 60
ttgacccgaa atagngggaa tggtdacart atdataagar aatarrqaac atatcatggt 120
tttaagagtg gctgatgtaa tatcttgcac gttggagtat aagtataagg tgaagtccca 180
catcgggtta aaatggacaa gttgagcacc atataagtga ggagaagacc cataaaccag 240
agccttaagg ttttgggtta aagtgtggtg tcaagttcac ttatgtggtt gctcatgatt 300
cattgatgta aatctctcca atttttaccc ccgctcagtt gcacaacaat tggattataa 360
g 361

<210> 19048
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19048

agcttgtatg tttgtacatg accaaatctt tagttaatcg tctttaccta aagcagtctt 60
tgtattcggt taaaatgcat gaagatagat cagtaggaga acaattgggt ttggttaata 120
aaatgattct agatcttgaa aatatcgatg tcaccattga tgatgaggat caagctttgc 180
tattgctatg ctttttgcct aagagttact ctcatctcaa agagacttta ctatttggaa 240
gagactctgt ttctcttgat gaagtgcacg ctgctctgaa tttaaaggaa ttgaatgaaa 300
gaaaggaaaa gaagtcctct ataagtgggt aagggtgac aacaagaggc angaccttca 360
agaaagatag taaatctgat aagaaga 387

<210> 19049
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19049

tnccatagtt ctgaataaat cttctatagt agcttgaaat ttctatatat tctcttaatt 60

ctttgactgt ctcaggctctt ggccactggt ggattgcctt aattttatca agatctggat 120
gcaccccttt gacagaaatc aaatgtccca agtaattgat ttgggttgtt ccaaagctgc 180
atTTTTtGta gttgaatgcc aagttgcgtt cttgtagtat ttgtagtgta gtgtgcatgc 240
attgaatgtg ttctgaccat gtcttggtat agactaagat gtcacaaag aaaaccæaaa 300
tgaacttctt aaggtgctcc ctgaaaatat cattcatcag attttgaaat gtggctgggtg 360
cattgctaag tctaaaaggt aacacaaccc attcatagtg cccactatgg gttctaaagg 420
cacgtttatg aatgtcttcc tctaccattc tg 452

<210> 19050
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19050

tgcaattgac ataaagggac gtcccanaat gactggtacc tcatggtctt cctccagatc 60
catgaccaca aaatcagctg gaaagacctt cacttttatc aaaacattct caattacccc 120
ggaaggtctt gtgatggatc ggtcaacaag ttgtaaagtc attctcgtgg gcatgatttc 180
caactctcac aaccttctac acatggagag cggcattaag ttgctactgg ttcccaaadc 240
aatgagagtc tttctgatgt gccatcattt tcttctattt cttaaaccct ttntgcacca 300
ttttaattac tgattagtct taattgtcaa attaattaag cagttttatt atttgggcac 360
attgagctaa tttgatgttt ntaatctaatt ttcatgaatt aatgaaacat tgggcttaat 420
ctgga 425

<210> 19051
<211> 398
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19051

ntgatggtgt cgagaagaaa tcacatgtct gtcacatct tataagggga gaatgtgaat 60
gtatgtatac atgattttga tgatgtcaaa gaagaattta acaaggctgc ttcaaatgat 120
aagcatttgc ttcaagaata attcaagatt gcttcaacaa acaaagcctt ggttcaagat 180

tcactaaaga ccaagccttg ccttaaaaca aagtgccttc aagacatgca aggctctggt 240
aatcgattac caggaagtgt aatcgattac cagaagacag gggtgagaaa tagcagttga 300
aaaaggtttt gaatttgaat tttaacatgt aatcgattac catatgtctg taatcgatca 360
ctagcaacgg aactttggaa attcanattc aaaagtca 398

<210> 19052
<211> 368
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19052

tctagcttat tcgaagcccc ttgaattgat tgtcggttcac gcacccctcaa ccatngagta 60
cggagcccca tgaattgatt gcctaacgct gttcatgcat ccttcacat caaatcttat 120
tcggagcccc atgaattgat tgtcggttcac gcacccctcaa ccattcagtc cggagcctta 180
cgaatagact gccaaagctct gttcatgaat cctctatcat caaatcttat tcgaagcccc 240
atgaattgat taccattcat gcacccctcaa ccattgagtc cggagcccca cgaattgatt 300
gcctagtgtt gttcgtgcat cctccaccat cttattcaga gccgcatgaa tngattgtcg 360
ttcatgca 368

<210> 19053
<211> 437
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19053

tagaaannat gggatgaacat atgacatcct tcttatattt tatctcaatt tctctcttgg 60
ttcttggttaa gattatatat atatacacgg acttactcca ctcaatgcca atgtctatct 120
ttaatgttta aatttagagt tgatctcttt tctcaatttt tcaattaaaa ttacatcaaa 180
gaagtcatat atttagagat aatacattgt ttattcttga taaggatgtt caaaactaat 240
tacacaagtg aggactaaaa attgagtcct gatacaaatt tacccttgta cagaagtctt 300
tagtatcatc tctaattgatt ctcaaactat taattatctc atcatttatg tcttgataaa 360
ttcagatata agtcatgtaa atatatttct ttgtcaaagc ttcccataat acttatctca 420

acactccatc aaatatt

437

<210> 19054
<211> 414
<212> DNA
<213> Glycine max

<400> 19054

ctatatggac gaaagtgcaa aactcctatt tgttggtatg atgatggaga agcagtactt 60
cttggacctg aaatgctaca acagattaac gaacaagtga ggttgattcg agagaagata 120
aaagcatctc aggataggca gaagagctat tatgatataa ggaggaagcc actagatttt 180
catgaaggag aacatgtgtt tttgaagggg tctcccgtaa ccggagtcgg aagagctctt 240
aatgctagga agttgacacc caagtatcta ggtccatatc aaattttgaa gaagattggg 300
cctgtagctt atcatatcgc cttacctccg agtttatcga atctgcatcc tgtgtttcat 360
gtctctcaac tgagacggta caaccagat ccatcacata tacttgcagt ggac 414

<210> 19055
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19055

tagccctaga gaggatggac cttttcaggt tttggagagg atcaataaca atgcctatag 60
gttggacttc ccagaaaagt atggagtcag caccactttt aacatttctg atttaattcc 120
ttttgcaggt ggagctgaga ttgaggagga ggaactaaca gatttgagga caaatcatct 180
tcaaggggaa ggggatgatg caatcctccc taggaaggga ccagtcacta taaccatgag 240
caagaggctc caagaagatt gggctagagc tgctgaagaa agccctatgg ttctcatgaa 300
cctcagggta gatttctgag cccatgggcc aaggctgagt ccaattatct ttgtacatat 360
tagactanga tgtcattata tttggtcctt gtatttangg ctccatattc tangtagggg 420
accctataaa tatac 435

<210> 19056
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19056

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ntcaatgtcg agcatctcga catattatgc gctcgaatcg aacatccgag tgaaaagata 120
tgaccatttg agtttctcga gagcttccgt ggttccattc cgagcatctc gacatatctc 180
gtgcccgaat ctgaccttcg tgtgaaaagt tatgaccatt tgaatttctc gagagcttcc 240
gatgtttaat ttcgagcgtc tcaatatatt gtaagcctga atcggagctc agtgtgaaaa 300
gttatgacca tttgtatttc tcgacagctt ccttggttca attccgagcg tctcgacata 360
ttatgtgccc gaatctgacc ttcgtgtgaa aagttatgac catatgaatt tctcgagagc 420

<210> 19057
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19057

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agaatggaga aggagaaaga tgaatggaga cgccacttca agtagaagat gagtctagaa 120
aaagctcacc accataggat gccatggata agagcttgaa ggtagaagaa gatgaatgaa 180
gggacaggaa aagaagagca cgaaatttag tgccctctaaa gaagtctgaa ctttgaagtt 240
taattctcaa aatgatcaaa gttcaaaaaa atgcacacac atgacctcta tttatagcct 300
aagtgtcaca caaaattaga gggaaatttg aatttctatt caaatttcac ttaaanttgt 360
ggagccaaat tttggagcca aaatttcact aattatgatt agtgaatntt agttatggtt 420
cagcccacta atccaagatc aagtc 445

<210> 19058
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19058

cttatagaga aaatgatggt atgattntct acccaatctt attatgttga acagctatat 60

attaaagaag tttaattatt ttgatgtgaa acatgtttct actccttata actcatccat 120
 caagttaaag aaaaatttga gtaaaggatt ttcttcacat aaatattctc aaagtattga 180
 ttccttattg catttgacaa acttctctag gccagacatt gcatatgcag ttggtagatt 240
 aggaaggtat actaataatc ctgatcattc tcattggatt gcattagaaa gagtttttag 300
 atacttaaaa ggaatcctca attatgacat tcattataca tgtnttctg cagtaatrqa 360
 ggggtttaat gatgcaaatt ggattttctga ttctgatgaa acanaatcaa caagtggtta 420
 ctgttttact ttagctagt 439

<210> 19059
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19059

nttacctgct tatcttgacc canatttgca aettcaagat ctctcactg gtgtaagctt 60
 tgcctcaggc ggtgccggat atgacacctc aacagctgaa ttagtggtac ataaccatat 120
 attcaacctt gttcatgcta tctatcaatt aataatttac tttggcacat cttagagcta 180
 actccagtct attttctcct tgtcacaaga atgtgatgtc attgtcagat caattagaca 240
 tgttcaagga atacataaag aagataaatg aagcggttgg aagaaacaga acgacaatga 300
 tagtatctaa gagcatatac atagtatgtg taggaagtga tgacattgcc aatacttact 360
 atcaatcacc ttttaggagt gctgagtatg atattccttc atacacggac ttcattggctt 420
 cagaagcctc anaattctt 439

<210> 19060
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19060

tgtccgcana anatcactca agaccgtttt aaggtccaac gccttanaac ggtcctcttt 60
 gcttatattg gttaaaatgg accattcaaa gcataaaatc aacatataaa tttatcgctt 120
 ttgcaagaac tacgtaggta tgattttctc atcacaattg aggatacgta ggagcaaaaag 180

ccccactttt gtcgaccacc ccaagagatc gttaattatc caacgcctta acgctttctt 240
catttcaaaa atcaagagat cattaatggg ccaacgcctt aatgtttctc tcctttcaaa 300
accaagaaat tgtaaatggg ccaaagcctt taacgtttct ctccttttca aaaatcaaaa 360
gatcgtttta aaggccaat gccttanacg acttttggtc ggtaaaaata tatcttgcca 420
mnaaacataa aaacactta 440

<210> 19061
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19061

tcttagtttc agctgatgaa gatgaattcg tggctacttc atgcactcct ctaacgacaa 60
tagcatcatt ttggcactaa actattggga gttggaagtc atcttctcaa ttaaattcct 120
agcttcaaca ggggtcatgt ctcctaggac tccaccacta gcagcatcta tcatacttct 180
ctccatatta ctgagtcctt cataaaatat tggagaagaa gctgctcaga aatctggtgg 240
tgagggcaac tggcgcatgg tttttgaaat ctctcccagt attcatatag gctttctcca 300
ctgagttgcc taatgcctga aatatccttt ttgatggctg tggctctgga ggcagagaan 360
atTTTTtcta agaatactct cttgaggtca tcccagctcg cgatggacct tggagcaagg 420
taatatagtc agt 433

<210> 19062
<211> 438
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19062

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agtatttatt gcctatactt aacagaaaat acttataaca ctacaaaata accataaatt 120
ggaagagttt gatacaattt acacaagttt tatacacata agttagtcgt attcatcgac 180
taacaatggg ccaaatttta attggattgg gcttctccca attcaattaa atttctctcc 240
caacacacac acatcaaata gtgcacttaa tgcagtgtgaa attacaaaac taccctaatt 300

acaaaaacta gtctaggtgc cctanaatac aaggggctaaa aaatcctaca ttactaggg 360
 accctcccta cactacggag ccctaaatac aaggaccaa aataatgaaa ccttaatcta 420
 atatgtacaa agataagg 438

<210> 19063
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19063

tgagcgtagt ggaagaaaag ttcttgaata gaattttccc tccttctaga tatatcagtg 60
 caaagtcaga tgtttccact ttcaagtaag aaccagatga acccatttgt gaagtctgga 120
 agtgattcaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttaccagc 180
 taagcatatt ttgcaatggt ctaaggccta aaactaagat gattctggat gcagtcgcta 240
 gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300
 caactgatca ccaatctcag cataacagac aatcgataga gaaaagagga gtgttggatc 360
 tcatttctcaa gggtttttca aaggaagtgt aaaaacattt tgttgtggta cctataacac 420
 aagagacgct gagagaagct c 441

<210> 19064
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19064

tagccctaga ggggatggac cttttaggtt ttggagagga taaataacaa tgcctatagg 60
 ttggacctcc tagaagagta tagagtcaac accactttta acatttctga ttttaattcct 120
 tttgcaggtg gagttgatat tgaggaggag gaactaacag atttgaggtc aaatcctctt 180
 caaggggaag gggatgatgc aatcctccct atgaaggagc cagtcactag agccatgagc 240
 aagagactcc aagaggattg ggctagagct gctgaagaag gccctagggt tctcatgaac 300
 ctacggtag atttctgagc ccatagacca aggttgggtc caattgtctt tgtacatatt 360
 agactangat gtcattatat ttgatccttg tatttanggc tccataatgt angtagggta 420

ccctagaaat at

432

<210> 19065
<211> 439
<212> DNA
<213> Glycine max

<400> 19065

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tactttcaca agaattggac gatgggttctt ctcaaagggt agatcaagaa cgtgctttgt 120
caagtgcggt tgatgggtata gcacttgaca tgcagagaaa atccgagtct tctgagtgt 180
aaagagagaa gcttcgtgaa tatgagcatc aatgtcgtga gaagatttca attgatgatg 240
ttcagcctca ttgtgaaaag gtggatgcac atttggaagt tcagaaggag acggatgctg 300
ctcctttact tgactgtaaa gagacgcagc agggatctgt tgattggaaa attgatgaga 360
gaccgattga ggaagtaatg atgctgagtg atcagaggaa ggtgacagtt ctgtatgaac 420
ttctgtctgg ttgtctatc 439

<210> 19066
<211> 345
<212> DNA
<213> Glycine max

<400> 19066

ctccaataat tcaaattggc ataacttttc acacggaggt tcgattcttg cacatgatat 60
atcgagacgt tcgtaattga acaacggaaa ccctcgagaa attcaaattg tcataacttt 120
ttactcggat gtccgattca ggcacatcac atatcgagac gctcgggaatt gaacaacgga 180
agctatgaag aaattcaaat ggtcataact tttcaactga atgtctgatt gatgtgcac 240
acatatcgcg acgctcgaaa ttgaacaacg gaagcaatcg agaaattcaa atggtcatac 300
ttttctgacc gatgtgcat tcaagtgcac cacatatcca gacgc 345

<210> 19067
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19067

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aatatatatg tgaggggtag aggggtgtcac actatatata attgtttatg ttttagtggt 120
ttaatgataa acttatttga ctaacaatgg attaggggta ctataatacc tanggtttag 180
tgtnatatgt cttattaggg ttcagtttta cttgaatacg taaggcttag tggatgtga 240
ctaattaacg ttcaatgta gttcagtaact tanggtttaa tttacgga ctaatatagg 300
gtttatgggt gtgtgaatac ctaagggtta gtgttacatg tcttattacg gtttagtttt 360
acttatatac gtaagggtta gtggtatgtg actaattaac gtgcaatgtt agttcaatac 420
ttatgggtta t 431

<210> 19068
<211> 443
<212> DNA
<213> Glycine max
<400> 19068

tgagatatcc gtaaagatca aagaagaggt gaaaaagtag ttcgtcactg gctttttggc 60
agtgggttca taccgccaat ggggtggccaa tattgtgccg gtccttaaga agatgggaag 120
gtatgaatgt gtggactatt gggacctgaa ccaagccagt ccaaaggata acttcccttt 180
accacacatt gatgtccttg tggataaacac atccaatttc actttgtttt ctttcatgta 240
cgggttctcg gggtacaatc agataaagat ggtgccggag gacatggaga agactatgtt 300
cgtcaccttg tggggaatgt tctattataa ggtgatgttc tttaggctca agaatgctgg 360
ggcaacctat cagcgggcta tggtagcatt attccacgat atgatgcaca aagagattga 420
agtctacatg gatgacatga ttt 443

<210> 19069
<211> 381
<212> DNA
<213> Glycine max
<400> 19069

tcaataactg ttcattgcca ttacctgtag aaatctcaca aatgtctgga cttaccttct 60
taaccttaac ctacaaccag gtctctggac ctattccatc tgaattggga aagttgactc 120
gccttatggc acttgatctt gccttcaaca atttcaactgg accaatccct ccaagccttg 180

gaaacttgag ttctctccta tggctaaccc tttcagataa ttcgttatct gaagaaatcc 240
caccagagct gggaaactgc tcaagcatgt tatggctgaa ccttgcaaac aacaaactct 300
cgggaaaatt tccttctgag ctaacgagaa ttggaaggaa cgcaagggcc acatttgaat 360
caaataatag aaaccttggg g 381

<210> 19070
<211> 444
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19070

aactaagctt gccagcgtta ttatggatct ttcaagatta tcaaacgcat atgtcctttg 60
gcctatagac ttctgttgcc agcaggggtct cgcattcacc tggctctttca ttgctcacta 120
ctcaagccat ttcttcaaga tgttgacaat caactcgcgc cacttccact cccaccaacg 180
accttgata accaactgt gatctcatcg ttagctattc ttagctcgcg tcaggaaggt 240
ccagatgaag acatgtatct ccaagttcta gtgcagtgga agggctctcca cgtagacgac 300
acctcgtggg aggactgggc cacattgaag ggcacctatc accttaagga caaggtgatt 360
nttgatgagg ttgngaata tagaccaagc gggtcacaag cagtcatac cgagaggccc 420
acaagaaaga tcacaacacc tcga 444

<210> 19071
<211> 448
<212> DNA
<213> Glycine max
<400> 19071

cttgcctttg caattccaag aactagtga gttccaagt atatgacatg taccatttgt 60
aattttccta tctaatttgc atcttccaaa atcagagtct gaaaaacctt ttaagtttaa 120
ggaagttcct ttggaatacc acaaacctac attggttgtg cccttaagat acttaatgat 180
cctcttaaca gtagttaagt gagattcctt tggattggac tgatatattg cacataatca 240
aacacttagc atgatatccg gtctacttgc agttaggtag agaagtgatc caatcatacc 300
tatgtatctt gattcatcca ctgatttacc tttctcatct aagtcaaggt aggttaatgt 360

tgtaacgcct ttaaatttca ataactgaaa atagatgttt gatgtatttc ttgtgttatt 420
 tgattactgg gattaattgg atgagttg 448

<210> 19072
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19072

gaaactcaag cttggtgtag aagggattgc taaaaaatgt aatcggatgt ccttgttgtg 60
 ttagcacagt gccattcct acacctggtg catctgtttc gatcatgaag ggtaaggcaa 120
 agtctggaag actcagaact agagccttgt tgattgcttc ctttagttgc tcgaaggcat 180
 taatggcttt tggagtccaa gtaaattggt cctttgccaa aagttgtgtt aatgatgtag 240
 caatagctgc atacccttta atgaatcgcc atgagccatc acctttctta accaggagaa 300
 ccgaagatga gaaagggtt gtgcttggct agattatgcc atttcgtaac attgattcta 360
 cttggttctc aatttcttgc ttctggaaat gggggtatcg gtatggtagc acattaactg 420
 gttntgagtt tggaaggaga tggatcacat ga 452

<210> 19073
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19073

cctttcattn taacccttag aacttcccag ttcaaattgt catagataaa gnaatgttga 60
 tgttcaaagg acactttaaa tcccttttta atcaattgac ctacacttag caagttttgg 120
 tcaatgttag gtacataaag aacatctgat attaatttga tacctgaaca tgttgaaatt 180
 gcaacagttc cttttccttt tactgaaata tagccaccat tccaattct gacctttgag 240
 acattanttg gcttcaaate cttgaataga gtcttatcat atgtcatgtg gtttgtacaa 300
 ccactatcaa tcaaccaact ttcaattgat tcaactactca agaagcatgt ggccacaaac 360
 agttgatcct cctcttcttg attagcaatc tgagctccct catcatgat 409

<210> 19074

<211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19074

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 gtaatggaga aggaagaaag atgattggag acgccacttc aaggagaaga tgaatcaaga 120
 agaaactcac caccatagga agccatggat aagagcttga aggtaggaga agatgagtgg 180
 agggagagga gaggcacgaa attttgagcc tcaaagtga tctgaacttt gaagtataat 240
 tcttaaataa tcaaagttga aaatatgcac atacatgacc tctattttaa gcttaagtgt 300
 cacacaaaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat ttgaaattga 360
 atttgtggag acaaattttc gagccaaaaa ttcactaatt atgattagtg aattntagct 420
 at 422

<210> 19075
 <211> 449
 <212> DNA
 <213> Glycine max
 <400> 19075

taagagcaaa aactacggct actaactcaa gatcgtgtgt gggataatc ctttcatgta 60
 tcttaagctg tcgagaagca taggccacta cctgtccccg ttgcataagc actccacca 120
 aaccatctt ggacgcata caataacca caaaagattc actcgggtta ggtaacacta 180
 aaactagtgc agtgggttaac ctttcttaa gggtagcgaa actactctca cattgggcat 240
 cccacacaaa aacttgacct ttacagtaa gcttagtcaa aggttaaggct agcttagaaa 300
 aacctctat gaatctacgg tagtatctg ctaagccaag aaagctccta atctcaaaca 360
 ctgacttagg actctcccaa ctcatcaccg cctctacctt ggaaggatct actggctatc 420
 cctccttaga tataacgtgc cctaagaag 449

<210> 19076
 <211> 429
 <212> DNA
 <213> Glycine max
 <400> 19076

tcaacattca atatcgagcg tctcgatata ttacgggact ctatcagaca tccgagcaaa 60
aagttactgt cgtttgaatt tgcctcagagc ttcgataatc aatttctagt gtctcaatat 120
attacgcgac tcagtcagac aaccgagtaa aaagttattg tcgtttgaat ttgctcagag 180
cttcagtatt caattctgag caatctcgaca tattacggga ctcaatcata catccgagta 240
acaagttatt gtggttgaa tttggtgaga gcttcgataa tcaatttoga gcgtctcgat 300
atattacggg actcagtcag acatccgagt aaaacgttat tgctgcttga atttgctcag 360
agcttctgtc ttcaatttcg agcgtctoga catattacgg gactcactca gacatccgag 420
taacaagta 429

<210> 19077
<211> 435
<212> DNA
<213> Glycine max
<400> 19077

cttaattaat tgtcttgata taaaatttct acacagacta ataatttcaa agtctataca 60
gtcgtattac ttttaaattt ggatgtaatt gtgtgtttta ttttctaacc cattaaaaga 120
gttagaaaac aatgaagacc acaatatcat ctttttttat cattatttta aagtactaat 180
ttattttcaat acatgtgaaa tttttttaaa aattatagtt tatacgctat ttatttaaaa 240
cataatcttt atattataat acaaaaatat cactatttca tactcataca atcagtatga 300
atataataaa cactataatt tgtctaatta ttattatata tatcattatt atataacaat 360
aacatttaca atagtcgtat tctattacta ttagactcaa ataaaaatca aaatctcaac 420
tatattattt attga 435

<210> 19078
<211> 389
<212> DNA
<213> Glycine max
<400> 19078

agctttctta tgaagattcc taaagaatct agagcttagc tacacatacc tctctaatag 60
ctaagctcac ctcttgaga tgagaagcta gaacttagct acacaccccc aataatagct 120
aagctcatcc ccatgacaaa taacatgaaa attcaaaaaa aagtccttac taaaagact 180

actaaaaatg ccccgaaata caaggctaaa accctatact actagaatgg tcaaataaag 240
 gcccaaccga aggataaacc tattctaata ttacaaaaga taagccggct catacttagc 300
 ccatgggctc gaaatctacc ctaaggctca tgagaaccct agggccttcc cttggatctc 360
 tagcccaatc tacttggagt cttctacca 389

<210> 19079
 <211> 336
 <212> DNA
 <213> Glycine max
 <400> 19079

acaattgcat cacctctcaa tgagctgggg aagaacaatg aggcatttac ctgcggtgaa 60
 aaacaagagc agtcctttgc tttgctcaaa gaaaagctta ctaaggcacc tgttctagct 120
 cttcctgact gttctaaact ttagagctaa aatgtgatgc ctctggagtg ggagttggag 180
 ctgtattgtt acaagggtgg cactctattg cttattctaa tgaaagactc catagtgtccc 240
 ccctcaacta caccacctat gataaagagc attatgcctt ataaaagccc tgcaaacatg 300
 ggaacattac cttgctttca aagaatgtgt cattca 336

<210> 19080
 <211> 398
 <212> DNA
 <213> Glycine max
 <400> 19080

agtcctttag caaatgcaaa ccacaataaa ttatagctcg gatatcccat tgagtcccgt 60
 aatatatcaa gacgctcaaa attgagtaca gaagctctta gcaaattaaa acgacaataa 120
 ctttctacac agatgtccga ttgggtcacg taatatatcg actcgctcga aactgaatac 180
 cgaagctgag agcaaattca aacgacaatg acttttaoct cggatatccc attgagtccc 240
 ctaatatatc gagacgttcg aaattgaata cagaaactgt gagaaaattc taacgacaat 300
 aactttttac tcggatgttc gattgagtcc cgtaatatat cgagacgctc aagatttata 360
 acggaagctc gtagcagatt caaacgacaa taactttg 398

<210> 19081
 <211> 388

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19081

agctttttaca aaacactgtg gccatctttg tctttagaag ctaaagattt tgtcaaacgc 60
 atattgaata aggatccaca gaatcgaata tctctctctc agcctcraag tgagttattt 120
 ttcttgccctc tatcatcaat ttcaataata tctagtaaga cattnttcaa gttgtcagcc 180
 ataatcttgt gcttgcaggt catccttgga tacaaaattg caataatgta aaagttccac 240
 ttgataaatt gtcagccata atcttatgct tcctgttgga atgaagtatt cctactttat 300
 tccaaccctt gtgtttgaaa atgatataata atcttctgac cacaagtatt ttcgatttat 360
 ttctctcttg taaacctctg agaattga 388

<210> 19082
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 19082

agctttcttct attgtcaatc acccagcaag ccttggcagc agagtgtagc aatgaatgtg 60
 ttgatgaact actagatgga tctgtgagga tcttggatat ctgtagtaca attaaagatt 120
 gcctactgca acacaaggaa agagtgcacg aacttgagtc agctattcgc aggagaagag 180
 atgccgaggc cggattcaca gtttcgagtg gaaaataactt ggcattctacg aagcaggtga 240
 aaaaagcaat tcggaaggcc ttatgaaatt tgaaaggatt caagaatgaa ctcatttttg 300
 cttcctcaaa caaagacaac gagacattgt ccattgcttag cttcttaaaa gaatcagaac 360
 tagtcaccgt gagctcatta aaagccttct tgggtgttatc act 403

<210> 19083
 <211> 363
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19083

tatatangta ctagcacgca gtatttcatt gacatataac acctttattg actatttgct 60
 cccacttata ttgcggtata cacaatcatt aactatattt gcctaaagat catatgaagt 120

aatgacatga tggaacttgt tgtagcgttg tctggagact tgattcagac catagatgtg 180
 ctaatttaga atgcaaacca tacactttga atgacctgat acaaaggttt agggttgcat 240
 catataaatg ggttcttcaa tgtcacaact tataaatgcg agcttaacat ccatatgatg 300
 tagctctaaa tcataatgag ctacgagtgc cattattgtt ctaaaagaat actttaaaga 360
 tat 363

<210> 19084
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19084

ttgcttttat ccaaaatctt gactcaccat aaaccttgac ccagagtgcg aatgtcaatc 60
 cttaccctct gaagcacaaa aagaagagaa tgaatatttc caatcaaacy ataaaggaga 120
 aggaaaattt ccaatcaaag aggaagcaaa aaaatgaaag aatgaaaatt tccaatctaa 180
 ggaaatagag aggaaggaa attcccaatc aaagagtggg agaatgcaca tagaagagaa 240
 agaanattgc caatcaaaga atgggagaaa gaaaaaaaga gaacgataag attgacagag 300
 agctcatgat caatgatcga aagagaacaa aagacatgtg cagagatgtc tttggaccac 360
 acaatatctg acaa 375

<210> 19085
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19085

nttaatggaa gtcaagagca tgatattgcy ccgataccgt tcaactggtga gcaggtatat 60
 cagcggggtc aacacctgaa cactgtatit gggaagaccc ataagaagga taaaagtcag 120
 agttgcatat ggaagaagag gtccattttc tttgatcttc cgtactggtg tgatcttgac 180
 gttagacatt gtattgatgt tatgcatgtg gagaaaaatg tttgtgacag tgtgattggg 240
 acgctcctta acattcaagg caagacgaag gatggcttan ataccctca agatctagct 300
 gatatgggta taagagcaca gttgtatcca aggtctgatg ggaagaaata ttacttgccc 360

ctagcctgcc atactntgtc caagaaggag aagataagtt nttgtcagtg ttttcgtcgg 420

<210> 19086

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19086

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tagctcatga gcacaaacat atagctgaag tcctatgaag gaacatagat ttgttcgcct 120

ggcagccatc taacatgccg agaatccacc ccagcattgt atgccaaaaa ttggttgtct 180

gcccttaggc caaaciaaatc tcacaaaaga aaaggaagat gggagaagaa ctacgtaaaa 240

caattagggg agagatcgac aagctactca attcccaatt catcagagaa gtcaaatact 300

cgacttggtta ggctaacatt gtcattgtga ggaaggctaa tggaaaatgg cacatgtgca 360

caaaatacac caacctgaac aaagcgtatc ccanaggcgt gtatccctta cctagcatcg 420

acaagctagt ggacgatgcg 440

<210> 19087

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19087

agctttgatc caatacaaac gacaataact nttttctcgg atgtctgatt gattccccgta 60

acatatcgag acgctngaaa ttgaaagctg aagctctgag ccaatacaaa cgaccataac 120

tttgactcgg gatgtctgat tgagtcccg aacatatcga gacactcgaa attgaatggt 180

gaagctgtga gccaatcaaa acgataataa cttttttcac ggatgtctga ttgagtcccg 240

taacatatcg agacgtcaa aattgaatgt tgaacctctg agccaattca aacgacaata 300

actttttact ctgatgtctg aatgagtccc gtaacatatc gagacgctcg aaattgaatg 360

ttgaacctct gagccaatca aacgacaata actntttact cggatgtcat gattgatgtc 420

cgaacatatc 430

<210> 19088
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19088

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 aaagtatttg tcgtttgaat atgctcagag gttcaacatt caatttcgag cgtcttgata 120
 tattacggga ctcaatcaga catccgagta aatagttatt gtcgtttgaa atggctcaga 180
 gcttcaacaa tcaatttcga gcgtctggat atattacggg actcaatcag acatccgagt 240
 aaaaagttat tgcgtttga attggctcag agattcaaca ttcaatttcg agcgtatcca 300
 tatattacgg gactcaatca gacatccgag taaaaagtta ttgctgtttg aactagttca 360
 gagcttcaac attcaatttc gagcgtctcg atatattacg ggactcaatc agacatccga 420
 gtaaaa 426

<210> 19089
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 19089

agcatattga gacgcttgaa attgaaagct gaaactctga gacaccacga cacaccatta 60
 cttcttactc agatgtacga ttgagtaccg gaacatatct agacactcga aattgaatgg 120
 tgaaactgtg aaccatttca aacgataata actatcttca ccgatggctg attgaggacc 180
 ggaacatatc gagacgtca aaaatgaatg gtgaacctct gagcacaatc agacgaccat 240
 aactctttac tcggatgtct gattgagtcc cgtaacatat cgag 284

<210> 19090
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19090

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 tagataaata aagtagagat ccaatcatat ctctgtattg ctgtggatca acaggttgac 120

cggattcacc tttgtctaga tagcaacttc tattcatagg agtagccaag tgttttgagt 180
 tttccattcc aaacctctta ataagttctt ttcaatactt tgcattgattg acaaagatcc 240
 catcatttgt ttgtttgatt tgtagtccaa gacagtaatt taattcacc atcaaggaca 300
 tctcacactc accttgcata tcaatagaca actccttgca caaagatgca ttagtagatc 360
 caaaaattat atcatcaaca taaatnigta ccaacaagat atcattatct cctttttata 420
 tgaataaggt ggcattctact t 441

<210> 19091
 <211> 468
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19091

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 cttttccata tcttaattgt tgggggtgcc aagctttcta tgccaattct ccttgactga 120
 catgtaggta catgggtcta tattgacttg agagttgaca cttgaaagtt ggtataatcc 180
 atctctaaga ttccctttta gtagtgctt cctgtcagt ttgtccttca catagcagta 240
 gtttgcatca aattcaacaa gagcattatt gtctgcagtt aatttagata cactcaacaa 300
 gttcttggtt atttctggga catacaagac attacgcaag ttgaggttat tcaattgagt 360
 cgagcctgat gccaatatgc tcaatctttt accattgcc actaacaag aattcttacc 420
 attgctttca ctgagatctt ggagttctca ttntgatgag tcacatga 468

<210> 19092
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19092

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 attaatgaga gttctcctag ggtgatcagt ccacccatca gccatcatag tacatctagt 120
 ttcccttcaa acttcttggt aaattttaac aagcttctc ctttcatcaa accatttata 180
 taacaaagga ccacaaattc tataaaaaaa aatggagat ttatacaccg gactcatgct 240

actaataaca tcaatcatag gttgataata tgtcgagtta attgcattaa atggcactat 300
 agcatctatc atccattntg caatggcttt gtcacacttt tctacaattt tcttattgtg 360
 caagacactc ttcaagct 378

<210> 19093
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19093

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 tgtcttactg gtttaacccc atcctctaaa tttattcaat gcatacatgt ggatgggcta 120
 atacctggaa tgcccgccag ggtctagcct atagcctttt tatgcttctt gagaatagat 180
 aacagtttct cctcttgctc atccgcaagg gaggcagata taattattgg aaaacttttg 240
 ctatcatcca agtaagcata atttaaatnt gatggtagag gcttcaattc tgggtgtgggt 300
 ggctggataa tggtagaaaag agatgggttc tcagcctgta ccttataaag aaagtcagag 360
 gtatgtgtac ttntctganac anntggtagt ctatctaac 399

<210> 19094
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19094

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 aaatctgtac ctgtcgcaag ggtttgtggg ttgtgctcct ctgctgacca ccatacagac 120
 ctttgccctt ccatgcagca acctggagca attgagcagc ctgaagctta tgctgcaaatt 180
 atttacaata gacctctca acctcagcag caaaatcaac cacagcagag caattatgac 240
 ctttccagca acagatacaa ccctggatgg aggaatcacc ctaccctcag atgggtccagc 300
 cctcaacaac aacaacagca gcctgctcct ttccttcana atgct 345

<210> 19095
 <211> 422

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19095

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gtgtctntnt cctttattct tcatgtcatg attgaatgat tcattatgtc tttccttctc 60
ccttctrrnt tggccataa caargattat acaactcttc atttctcttc targcttga 120
ttgaatttca tacacaatta ttttattaat ccaaaccata taaattatta cgtgtgtgta 180
atataaaagc atatttagta aaaaatattg tttatatgag gataaaataa taaatgttga 240
tatttaaatt acataagtac ataaagctaa tgaacacatg tcttttaaatt ctaatgctag 300
atatacattg catgataatg ccatatatag tggttagtca tgtcttaact tatatatatg 360
gattggataa acagaataat tggatatgaa tacgaataag agcataagac gaggaggatg 420
aa 422
```

<210> 19096
<211> 325
<212> DNA
<213> Glycine max
<400> 19096

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aagataggaa cgggtatgac cacaccctgc cgtgaagaat taatggcctt gccaaaaaac 60
taccaagaca tctttgcctt gtcataccaa gatatgcccg gtttgagttc tgacatcgta 120
caacacagat tacctctaaa tcccagagtgt tccccggtaa aacaaaagct gaggaggatg 180
aagccccgaga cgttcttcac aataaataaa agaggggtaag aaacaatttg acgctggctt 240
tctggctggt gctcgggtact cggaatgggt tgccaacatt gtaccagtc ccaagaagga 300
tggaaggta tgaatgtgcg tggat 325
```

<210> 19097
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19097

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agcttatact cactgagctc ttgattgaca caagccttag ggtgatgcaa tcctactccc 60
aaagggcatt ggatagaaga ctccaagaag attgagccag agatgcatga gaaggcccta 120
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gggttcttat gagccttagg gtagattttg ggcccatgga ctcagtatga gccacttat 180
 ctttgtatat attagattaa ggtttcatta tttttgggcc ttgtatttag ggctccatag 240
 tgtaaggagg gtaccctagt aatgtaggat ttttcagccc ttgtatttta ggttacatag 300
 actagttatt ggattagggg taattntgta atttctcatg cattaagtgc actatntgat 360
 gctgtgtgt 368

<210> 19098
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19098

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 gtataaagtt attgtcgttt gaattctata tgagcttccg ttttcaattt ggagcgtctc 120
 gatataattac aggactcaat cgtacatcta agtataaagt tattgtcgtt tgaattttct 180
 cagagcttct gttctcaatt tcgagcgtct ccatatatta cgggactcaa tcggacatcc 240
 gagtaaaaag ttattgtctt ttgaatttga tatgagcttt ctttttgaat ntggagcctc 300
 tcgatatatt acaggactca attagaca 328

<210> 19099
 <211> 362
 <212> DNA
 <213> Glycine max
 <400> 19099

ttcttttaaac tctgtacaac aatgaagctc tgataccact tgttaaacia gtggcctcag 60
 atatcttaag aaggggggggt tgaattaaga tattccaaac ttttctccta attaaaaatc 120
 tatcttactt tgtacttaag ttatgaattc ccttaatgac aatcttctta tatattaatt 180
 caaatgaagc agcttgaatt atgaatataa agcaataata aataaaggag atctaaggaa 240
 gagaacatgc aaactcagtt ttatacttgt tcggccacac ccttgtgcct acgtacagtc 300
 cccaagcaac ccgcttgaga gttccactaa cttgtaaatt ctttttacia gttctaaaca 360
 ca 362

<210> 19100
 <211> 426
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19100

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nggaagggtg attatgttta gataacgttt atgtagagtg tata'tattn ttctttcaag 60
tttcaattgt acgtagcttg tgtcttcttc acacataggg catgcataat ggcctttaac 120
actattttcca ctcaaattct catatgttgg aaagtcatta atggtataga atagcattgc 180
acacaacttg aatgtctcat tttaataccc atcaaataca acaacccctt cgtcccacaa 240
ctttgtcaag tcttcaatca agggactgag ataaaacatt aatgtcaatt tctggttgtc 300
tcatagacaa catcatgtat gttagcttca tgcacaacca atgaggataa ttgaaattac 360
tatcaaaaca ggtcatgaac tgtgctgaga gcttaaacta ccatagagat tcattccatc 420
actggt 426
  
```

<210> 19101
 <211> 431
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19101

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ntgagccaaa atcctgactc accatanacc ttgacctcag gtgataatgc caatccttac 60
cctcggaagc aaaaaagaat agaggggaaa ttccaatca aagaaaaaga gaaggataat 120
ttccaatgaa agcaaaaaag aatgaagga atattcccca atcaaagagt gggagatagc 180
aaaaaaagga aaagaaggaa aattcccca tcaaagagtg ggagatagca aaaagaaaag 240
atagataatt cccaaccaa gaatgggaga aagtaaaaaa ggaagagaag atagcttctg 300
gtcaaagata ccagaagata tgtgcagaga ggtctttaga accgacaata tctgaacaat 360
acagaattgt cactaaatga aaaaaagaa ggataggaaa ccgtgaccta naatgggtctt 420
ctcccttta t 431
  
```

<210> 19102
 <211> 419
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19102

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attcttcagt tctccaagag acttggtcag ctccatccaa actntcatgt cacatgccta 120
attccacac tcgtgtctcc cccaagtgcc tcaatatcca tccttcaaac tcttcacca 180
aacatcaaca ctatTTTTct tcaaccggtg aaacctgagg acctaccaca aggggtacc 240
atagaaactc aaattcagct catagtggct ctctctatgc cctccataca tcaggccctg 300
aagaccttaa cttcaaggac tcgctntgtg gccttggtgg ctgattcttc tgcctttgac 360
gcattagatn ttgctaata gttcaacatg ttgtctata tntacctccc catatcagc 419

<210> 19103

<211> 468

<212> DNA

<213> Glycine max

<400> 19103

actcagcttg tcaaaagga agcaagttaa gaaatccttt caaagcaaaa acgttgtttc 60
tacttcaaaa ccccttgaac tacttcacat tgatttattt ggtccctcaa gaactatgcg 120
tttaggtgga aattactatg gcttagtaat agtagatgat tactcaaatt tcttggtactt 180
tgtttttgaa aaccaaaaat gaagcttttg atgattttca caaacttgcc aagggtgattc 240
aaaatgaaaa aggtctcaac attgtttcaa ttagaagtga tcatggaggt gaatttcaaa 300
atgactttta tgaaaaaat gaaattcacc ataatttttc tgccccaaga acatctcagg 360
agactggtgt tgtggagagg aaaaatagat ccattgaata aggtgcaaga aaccttctaa 420
atgaaacaag gttacctaag tacttttggg aagatgtata catactat 468

<210> 19104

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19104

gaatgctttc tgtcttgtgc caatggaata aattgacttg tcgccaagtt ttggactggt 60

tcctgaacca taatgatact ggtcaatctt tagttcaa at ggacaagcta aatgtgaaat 120
ctaattgtca cctatacagg aatttggagg gaagagtgga aaggcggcag aaaacagaac 180
tcatacctgt agtgtcaagc acagaagaat gacttttctt taaattcccc agactttctt 240
cttcaaaacg ttcacgaccc tcagagagta tgccaagata agcatacaca ttgggtctgaa 300
tgggtcaactn taaatttca cgttcacctt cgganaggg ggtgctttg taaagaatc 360
tggcctgaca taagcattta caattctata aatacattga tttcttggct ttcttcaaca 420
acaacatgca tg 432

<210> 19105
<211> 401
<212> DNA
<213> Glycine max

<400> 19105

tgaatcggac atccgtgtga gaagttatga ccatttgaat ttctcaagag cttccgctgt 60
tcatttttga tcctctcgac atattatgca cccgaatcgg acatctgtgt gagaagtcac 120
gatcatttga atttctcgag agtttccgat gtataatttc gagcgtatcg atatattata 180
accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240
ttgttcaatt tcgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300
ttatgaccat ttgaatatct caagagcttc cgttgttcaa ttctgagcgt ctcgatatgt 360
gatttgctg aatcggacat ccgtgtgaaa acgtatgacc a 401

<210> 19106
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19106

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actgtgggtg aacatttgtt atgcgagaac aagttcgagc agattgtctc caatgaagaa 120
tgtaagtgtt gtactttgta acagacatag aaaagaggca gaggagaaac ttgacaaaac 180
ctgcgggatg gccaaagctag caatagtgat gccggacaca aggtcagatt tgaagagttt 240
gagattatac ttangacccc attggagaat agggaaacaca tattgagctc caaggatcag 300

ttntctctta agaggttgtc ccttgaattg ggcagagga tcatcangga agaaagtttc 360
 cttgagccta cccttgagtt tctg 384

<210> 19107
 <211> 354
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19107

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 acaaaatata tganaatata aaaaanaaaa agtccttaca acaaagacaa ccanaaatgc 120
 cctcaaatac aaggctaaaa ccctatactg caagaatggc caaaatacaa ggcccaaaag 180
 aaggaaaaac ctattctaatt atttacaag ataagcgggc tcatacttag cccatgggct 240
 cgaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatct ctagcccaat 300
 caacttgag ttttctaccc aatgcccttg cgggtgtanga ttgcatcaat atgt 354

<210> 19108
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19108

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 ttttatgaca ttgagcact tattatttct ttttaattatt tgtttagtat gactgaatat 120
 gatgattata ttactatct cttggttggt tatggttatg aattttaaac ttagttattt 180
 tgataatata tgatcagtgg tatgtacttt tatttggtta ttatgagtga cttttctgga 240
 ttatatgaca ttctatgaag tatatctttc taagattgat gaatgggtta gttatcttgt 300
 ttgattgttt tctattctct tgtatgatta gtaatttatg tatgttttat atttggtatg 360
 cattttggct ttntgttgat gccaaagggg gagagaaata nggattaaat caagaactcg 420

<210> 19109
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19109

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 tatatcgaga cgctcgaaat tgaatgttga atctcttaac caatccaaac gacaataact 120
 ttttactcgg atgtctgarr gagtcctgta atataacyag aggtccaaa ttgaatgttg 180
 aagcttagag ccaattcaaa cgacaataac ttattactcg gatgtctgat tgagtcccg 240
 catatatcga gacgctcgaa attgaatgtt gaagctctta gcccaattcaa acgacaataa 300
 ctttatactc gaatgtctga ttgagtcctg taatataacy agacgctcga aattgaatgt 360
 tgaagctctg agccaattca aacgacaata actttntact cggatgtctg attgagtccc 420
 gtcatat 427

<210> 19110
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19110

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 ataggttgga cctcccagaa gagtatggag tcagcaccac ttttaacatt tctgatttaa 120
 ctctttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaate 180
 ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa gggaccaate actagaacca 240
 tgagcaagag gctccaagaa gattgngcta gagctgctga agaaggccct anggttctca 300
 tgaaccttan ggtagatttc tgagcccatg ggccaagggt gggccaatt atctttgtac 360
 atattagact angatgtcat tatatntggt ccttgatat anggctccat att 413

<210> 19111
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19111

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gatgtccgat tctggcaaat cacatatcag gacactcgaa attgaacaat ggaagctctt 120
gagaatttca aatggtcata acttttcaca cggatgtagg attaaggcgc atcacatata 180
gagacgctcg aaaatgaaca acggaagctc tggggaacat aagatgggtca taactttctca 240
cactgagggtc ctattctggc ttataatata ttgatatgct cgagattaaa catctgaagc 300
tctcagagaa ttcanatggc cataactatt cacacggatg tccgattcgg gcgcataata 360
tg 362

<210> 19112
<211> 311
<212> DNA
<213> Glycine max
<400> 19112

agcttggttt gatatcaatc ttgccaaaga gatactcggt tttggactga aaccccgagc 60
cagaggcttt gtcaaggga agagtggaga gatcgccgtt gttgagtatc ttggcacgac 120
catctcccca agttacgtca aaatcctggt agaagttgcc agcagaggct gcgatggaag 180
aggccaatac aaatacataa aggacagttt ttgttgaaaa tgtaatggaa tgaagagaag 240
ccatgattgt tttgaatgaa atgtagaaag aggaagttaa aaatgtagta gcttggtaga 300
agtaatgaaa t 311

<210> 19113
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19113

agctntgatt gatttgacct gaaatgttgt ttagtgagag atcaagggt tctaacaatt 60
tcatttttcc catgtcattt ggtatccctc caaacagatg atttctagac aagttcaaaa 120
accgcaaagc agatagcttg gaaatttcag atggaattgc tccagacagc ttattacttg 180
aaagatcaat cattctcacc aatatcagat tgtctctgta ctctaactca tctcctttgg 240
gaactaagac aagagtttcc ttgtagtggg tataactgaa gtcagagcca tatgaataac 300
ttanagggtt ggcaaagaag tcattctcac cagccattgt cttcatgtca tccaaacaat 360
ntggaatgga tcctgacagg ctgttattgc caagatccag cactat 406

<210> 19114
 <211> 366
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19114

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 ctagacattc tcttaaagat ttatgcaata atatggcttt tgtatctatg attgaaccta 120
 aaaatataaa agaagccata atagatgata actggatcat tgccatgcaa gaagaactga 180
 accaatttga aagaaacaat gtatggaaat tagtagaaaa acctgaaaat tatectatca 240
 taggaacaaa atgggttttt agaaataagt tagatgaaca tggataatt attagaaata 300
 aagccaggtt agtagcaaaa gggataata tagaagaagg aatagactat gaagaaacat 360
 atgctc 366

<210> 19115
 <211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19115

agctntggtg tcttactttc gaccataact ttttactcgg atgtctgatt gaggctcgta 60
 atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaatacaaa cgatactgac 120
 tttttactcg gatgtctgat tgagtccgt aagatatga gacgctcgaa attgaatctt 180
 gaacttctga gctaattcaa acgacaataa cttttttctc ggatgtctga ctgagtcccg 240
 taacatattg agacgctga aattgaatgt tgaacctctg agctaattaa aacgacatta 300
 actntttact cagatgtctg attgagtccc gtaacttata gagacgctcg aaattgaacg 360
 ttgaagctcc gagccaatac aaacgaccat aactgtntac tcggatgtct gattg 415

<210> 19116
 <211> 369
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 19116

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gcccagcata ttgtagatgt tcggaaggcg ggaatcaaac cttcagttga tgataaacat 120
gttgtgagac gagaagcgtt gaagcgttgt acatgggaag taatggacag tgacagaggc 180
gaagaatga agatatacgc catgacccg aagacatrgg ctgcatacgc tgcctgctgac 240
ggtggaattt ctcatagaaa cattaactgaa ttgtgtaata acttgttcca ttngtaatta 300
atgcactcaa cctcatatta cttcttattt actcagtcac acaccgtgcg agaatttaca 360
gttgtttca 369

<210> 19117

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19117

agctttgatt gatttgacct gaaatgttgt ttagtgagag atcaagggat tctaacaatt 60
tcatttttcc catgtcattt ggtatccctc caaacagatg atttctagac aagttcaaaa 120
accgcaaagc agatagcttg gaaatttcag atggaattgc tccagacagc ttattacttg 180
aaagatcaat cattctcacc aatatcagat tgtctctgta ctctaactca tctcctttgg 240
gaactaagac aagagtttcc ttgtagtggg tataactgaa gtcagagcca tatgaataac 300
ttanaggggt ggcaaagaag tcattcttcac cagccattgt cttcatgtca tccaaaccaa 360
ttggaatgga tcctgacagg ctgttattgc caagatccag cactata 407

<210> 19118

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19118

agctntgggt tttatgactt gctccaatgg ctcatcatgt cttctattga acctttcttc 60
atagacttga agagaacca tcaattgggtc tacggtcatt gagtctaaat ccttagactc 120
ttcaatagca caaacatat aatcaaattt agcgattaag gagcgaagga tcttttccac 180

cacatgaaca tcttccatat tttctccata atgcttcatt tggttcacaa tagccaacac 240
 cttgttgcca aaatctgaga tagattcgga ttccttcata tgcaatgatt caaactctct 300
 acatagaatg taacttcata ccttgttttc ccaacatgac aatattgaaa gcataaattt 360
 tgtgaaagcc taatcctcca aacccttgt tcattgacat tntactccat ctcac 415

<210> 19119
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19119

cactcggacc cggtgatctta agcactgagc tcagcttttt ttatgccctg atcgactcga 60
 gtaagtatac ataaattcta gagcttcggt gttaattccg tgcgtctcga tatattatgt 120
 gcctgaatcg gacctctgag ctaaaagtta tgaccatttg aatttctcga gagccttccg 180
 ttgtcaattt catgctctc gatataattat atgcctgaat cggacctccg agttaaaagt 240
 tatgaccatt tgaatntctt gagagcttcc gttgggtcaat ttcgagcgtc tcgatataatt 300
 atgtgcctga atcgaacctc cgagtgacta tgtatgacca ttngaattgc tcaacagctt 360
 ccattgggtca atctggagcg tctcgatata ttatgcgcct gaatcggacc tccgagtaaa 420
 acgtatgac 429

<210> 19120
 <211> 310
 <212> DNA
 <213> Glycine max
 <400> 19120

agcttctcat atgtgtttgc acctaaatcg gtcacccgag ttagaagtta tgaccatctg 60
 attttctccc gccgtttctt ttctcaattc cgagcgtctc gatataattat gcacctgaat 120
 ctgacctccg agagacaagt tatgactcat gogaattgct catgagcttc cattgttcaa 180
 tctcgagcgt ttcgatatat tatgcgcctg aatcggacct ccgacttaag agatatgacc 240
 ttctcataac tcgatagctc ccgccgttca atttctaacy tctcgacata ttttgcgtc 300
 gaatcggaca 310

<210> 19121
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 19121

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agcttgaatc atttctgtat gcattggata actgggagac ccatctggcc ttgaatcaca 60
cattcgcacc tgcctcaagg gtttgtgggt tgtgctcttc tgcctgaccac catacagacc 120
tttgaccttc catgcagcaa cctgtagcaa tcgaacagcc tgaagcttat gctgcaaata 180
tttacaatag acctgctcaa cctcagcaac aaaatcaacc acagcacaac aattatgacc 240
ttcccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tggtagattc 300
ctgagcaaca acagcagcca gctctttcct tacataatgc tgttggccca agcagaccat 360
acattcctac atcaatgcaa caacagcaac tactctaata actagcaaca act 413
```

<210> 19122
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19122

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agctttcana ttaagttgcc taatgcctaa aatgtttttt ctgatggttag tggctcctaga 60
tgcaggggaag aatttctcca agaacacctt cttaagggtca tcccaactga aaatggacct 120
gagagcaagg tagtatagcc aatcttttgc cactccctcc agagaatgag gaaaagcctt 180
tagaaagata tgatcttctt ggacatcagg gggcttcatt gtggaacaaa caatatggaa 240
ccccttaaga tgcttatgag gatcttcacc tgcaagacca tgaaacttag gcaacagatg 300
tattagtcca gtcttgagaa catatggaac acccttatca ngatattgaa tgcacaagct 360
ctcacaagtg anatcaggtg cagccatctc cctaagagtc ctctca 406
```

<210> 19123
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19123

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agcttcattc tgccatcata ttcattgatg aagtagacag ttttttgggt cagcgtcgtg 60
```

gaacagatca cgaggctatg ttaaacaatga aaactgaatt catggctctg tgggatggat 120
 ttacaacaga tcgtaagttt aacagttatc atattttatt ttgttgcata aatattgaaa 180
 ataagttgca aataagataa tgacaatfff gatagagatt tagttggtaa cataatgttc 240
 tcaattttatt tatatttgag tagatttggt gattgggggtg acttattgtg tgtgtagaga 300
 atgctcaagt tatgggtctt gcagcaacta atcgctcttc agaacttcat gaagcaatac 360
 ttcggegtct tctcaagcc tttgaaattg gaa 393

<210> 19124
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19124

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 taagtatatt caccaggaaa acatcgtagt ggaaggaaat tgtagtgctg tgattcaata 120
 gatccttcca cccaagcata aagaccctgn gagtgtaact attccttatt caattggaga 180
 agtcactgtg ggaaaggctc ttattgacct gngagccaac attaatttaa tgccactctc 240
 catgtgtaga aggttgggag agttggagat catgcccact angatgactn tacaacttgt 300
 tgatcgctcc attaccagac catatggagt aattgaagat gtgctggtca gagtgaaaca 360
 ttntatcttc ccggcagact ntgtagtaat ggatatctgt gaagatactg acattcctgt 420
 aatattgg 428

<210> 19125
 <211> 421
 <212> DNA
 <213> Glycine max
 <400> 19125

agcttatatt tattgtaggg agaataaaac aatccaaaat caattgtacc tttcaagtaa 60
 cgaagaattc tttttgcggc ttttagatga ggagaggtag gagcctccat aaagcgacac 120
 acaactccca ccgcatatag aatatcgggc cttgtattgg ttagatacct taaactcccc 180
 acaagactct tgaagatcgt gaagtctacc ttctctcctt catcaaactt tgataacttc 240
 aagccacctt ccataggtgt gttcacggga ttgcaatcaa gcataattaaa ttacttcaac 300

acttcttttg tgtacctttc ttgtgagaca aagataccat tctccgtttt cttcacttcc 360
 attcacaagt aatatgacat gagtcccata tctgtcatat cacattcacg agacatggac 420
 t 421

<210> 19126
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19126

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 gcaccaatgc tagatcctta ngcatttggt tccatgggtga aaggtttaga gaaattgagt 120
 atgcatagca ctggggctga gctaaactgcc tcttghtaacg cgtgaaaggc tagcatggcc 180
 tacgggtgacc acacaagggtg ttccttggtc aagagatgaa tcacaggggt tgctatggta 240
 gcatattctc tgatgaaaca tctatcataa cctgtgagac ccatatatcc ccacaggggt 300
 ctaaaggagg tgggtcgagg ccattgatga atggcaagta tcttgtcacg aacgggatga 360
 acaccgcgaa cggataccac atgac 385

<210> 19127
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19127

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 tcaaagtctt tggatgaagc aacaatgatg taagctccat tggagcttgt aggcctagga 120
 tcttcttcat caatggattc ctttgccttct tggaagatga atggcagcgg aatggagaaa 180
 ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa gctcaccacc 240
 ataggaggcc atggataaga gcttggagga agaaggagat gaatgaaggg agagggagag 300
 aagagcacga nattntgtgc tctanatgag ctttgagatc tgaagtttaa tattcanatg 360
 atcaaagttg anaaanatgc acacacatga cctctatnta tagcctaagt gtcacac 417

<210> 19128
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 19128

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agcttgctac ttctggaagc tctaatatc tcccacactt ttgggggtgg gccattcttg 60
gatggccttg attttctcag ggtccacttg gaccccattt ctaccaacta caaacctaa 120
gaagactata ttatctacac aaaaggtaca cttctctata ttgcataga ggggtgtttt 180
cctaaggact gaaagaactt gcctaagatg tcttaagtga tcagctaggc ttctactgta 240
cactaaaata tcatcaaaat aaacaactac aaatctacct atgacatccc ttaagacatg 300
atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaggca tcactagtca 360
ttcatacaaa ccaaacttgg tcttgagagc gatttacact cat 403
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<210> 19129
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 19129

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agctttgagc aaattgaaat gacaataact ttatacacgg atgtccggtt gagtcccgta 60
atatatcgag acgctcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120
tttatacacg gatgtccggt tgagtcccggt aatatatcga gacgctccaa attgaaaacg 180
gaaactctta gaaaattcaa acgacaataa ctttttactc ggatgcccgga cagagtgtcg 240
taatatatcg agagacgctc catattgact atgaacgctc gtatcatatg taaacgacaa 300
taactttata ctgagatgct tgatagagtc ccgtaatatata tcgagacgct caaattttag 360
atccgaagct ctgagaaaat tg 382
```

<210> 19130
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19130

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cttgtgacaa cttcatgtgc tactcaatgt tctgaataac tttttactac ttatcttgat 60
```


tgactctttt cttgagtctt gagtcttgat cttgattatt cttgattctt gattcttgaa 120
acttgaaaact tgattcttga attgttcttg actcaatctt gaagtcattc tcttgngctt 180
tttgtcatca tctgtgttat catcaaaaaca ccttgaatca atcgcgacct atcatctgaa 240
tcaatcttga ttcattgactc aatcttgatt caatcatgaa gcttgcttct gcacttatgc 300
gtcatgtctt agaggatctc ataggtagat ttgagttgt ctatcttgat gatatttag 360
tgtacagtac gagcctagat gatcacttac gacatntcat gccagttctt tcagtcotta 420
ngaaaaaacac tctctatgca aatat 445

<210> 19131
<211> 453
<212> DNA
<213> Glycine max

<400> 19131

ctaccagaca gatcagccaa aagtgtctga gctggcccct acaaattaaa ttgaagaaat 60
aaaggggaat ttagttttca gctgcacaac tgaatcagta tgaagttaat ataacagaag 120
cacatgtcaa ttactttaac aagcttacct gcactgtgtt gttagcaagg tccagcatcc 180
agaaccaag aataaatata agagcagccc ttgttcgggt ccttttaaat gttcttaatt 240
tcagacagaa tttcattaat gtctaactaa ggatcatcata tctgtgaatt ttaaaaagac 300
agaaataaaa tgagtaacga aataacgaaa ggatgagata agaaacctgc aatgctcgtg 360
tgtatcacct aatacatatc caatgtctgc agaacatccg attaatatca cctacattac 420
aagacttgac ttaccatatg tgtaatgtag cat 453

<210> 19132
<211> 375
<212> DNA
<213> Glycine max

<400> 19132

agcttgtgat ctattacaca agtcttgtaa tcgattacca gaggagattt tcagaaaata 60
atttccaaga gtcacatcta ttcaaatggg ttatgaatgg ccatcaaagg tgacttgga 120
acacgaattt aaagagagtt ttcattgccc acaaagttaa tctctcaaa agattaagag 180
tttttctgaa ctgaactgtc ttatcctctc aaaaagattc cttggtcaac cacttgcata 240

ttcaataagg aattttgatt ggtcttcatt gtacaatcta tcccttttaa gagagatttc 300
 ttcttctctt cttcttactt ctgaaaaggg attaagagac tgagagtctc ttattgtaga 360
 ggattcttga acaca 375

<210> 19133
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 19133

agcttgaagg caaactggat gcattggtta acttggtaac ccagctggcc ttgaatcaga 60
 aatctgtacc tgtcgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctacaaata 180
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240
 tctccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tgggtccatcc 300
 ctcagcaaca acaacaacaa cct 323

<210> 19134
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19134

tctgtccctg aganactggt tcccagaaga caacagggag tgaagattgc tgaaaaccct 60
 agccttgcaa caagtcctag ggaagtagac acggagatgg acaagaaaat ccgcagtatt 120
 gtgagtagca ttctgaaaga tgcttctgtt cctgaagctg atgaagatgt cccaacatcg 180
 tccaacccaa atgtttctgt gctgatgtt gagaaagatg ttccaacatc ttccgcccaa 240
 atgctgagta ctctcttccc ccagcaaaga gagatcaaca gaggaagatg atcaagcgac 300
 aaaggagacc cctgcaccaa gggcaccaga acctgctcca ggtgacctca ttgacctgca 360
 agaagtagaa tctgatgagg aaccattgc caacaggttg gcacctggcg ttgcagaacg 420
 attacaaagc cg 432

<210> 19135
 <211> 393

<212> DNA
<213> Glycine max

<400> 19135

agctttccct ctttgaacaa ataccctcca gccaaataaa atccatcttg ggccttttgc 60
ccataactct cattaatggg agagaaatgt tcatctgaag catacaattc cctaagtgtta 120
tcaaattccta aaatttgagc tccaaaggag taaaacaang tgggcttgct agagagggca 180
tcaactacca catttgtttt tccctttttg tttttgataa catatggaaa ttactctagg 240
tactctaccc attttgcatg ccttttttta acttgctttg cgctctaag tatttttagtg 300
attcatgatc actatgaatg acaaattcct tggaaacaag ataatgttcc caagtttgga 360
gggctattat taaggcaaaa agctctctat cat 393

<210> 19136
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19136

tatgctgcac acatttataa tagacctcct cagcagcaaa accaacagca atagaataat 60
catgaccttt caagcaatag atacaatcca gggtggagga atcatccaaa tctaggatgg 120
acaagtcttc cacaacaaca acagtctatc cctccttttc agaatgctgc tggccaagc 180
aagccatatg ttctctctcc aatgcagcaa tagcagcaac aacaacaaag caacaagcaa 240
ctatgcctct cctcaacctt acttaaaaga gttagtgatg cagatgacca tccagaatat 300
gcaatttcag caagagacaa gagcctccat tcaaagtctg acaaatcaga tagggcagat 360
ggctacttac atgaatcaag ctcaatccca aaattctgac agattgcctt cacaaactgt 420
gcagaatgca naacatgtga gtgccatcac cttg 454

<210> 19137
<211> 392
<212> DNA
<213> Glycine max

<400> 19137

agctttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60

tcttctatctt tcagattggg gatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac cttcttggag 180
gatagacatg tggaggagta gctggtttct tgggggtgtcc ataggtaaca attgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagttta ccttgaatcc tccatcacac aacgactga tgcctaatca gtttgcagtc 360
agtcctttca ccagcagtac tttgttcaga ct 392

<210> 19138
<211> 452
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19138

tctgttctca attgcgagcg tctcgatatt gtacggcggt ctatccgaca tccaagttaa 60
aagttattgt cgctggagtt ttgtaagagc ttcccttttc aattacgagc gtctcgatat 120
attacgggac acaatcggac acccgagtta aaagttattg acggttgaat gcgctcagag 180
cttctatctt caattacgag cgtctcgata tattacggga ctcaatcgga catctagcca 240
aaagttttgt cgttcgattt ttctgagagc ttctgttntc aatgacgagc gtctcgatat 300
actaccggac tcaatcggac atccgagtta taagttattg ccgtgagaat ctgctcagag 360
cttctgtttt caatttcgag cgtctcgata tactacggga ctcaatcnga catgcgagtg 420
aaaagttatt gtcgttttga ttggctcaga gc 452

<210> 19139
<211> 388
<212> DNA
<213> Glycine max
<400> 19139

agctttgatg caacattggg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60
gttggatcaa atggagaata gagatcacia tgaagaagaa aggatgagaa gatggaatga 120
tggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
caacatctat gatgaggacc agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300

tcttgtgtgg tggaacaagc tacagaatga gagagcaaga aatgaagagc caatggttga 360

tacatggacg gagatgaaaa agatcatg 388

<210> 19140
<211> 390
<212> DNA
<213> Glycine max

<400> 19140

agcttgcaaa atggaagcaa agaagtctat ctatgggggg cagaatcact ctcattaatt 60

cagttttatc agctttacct atcttttttac tatctttttt taagatccct aaaaaagtgg 120

tgcaaaagat tgtatcaatt cagagaaaatt tcctttgggg aggtcatcat gaggccaaca 180

agattccttg ggtgaagtgg gacacaatct gccttcctaa aaataaaggg ggcctagggg 240

ttaaagatct ctaaatttaa tgaggcttta cttggcaa at ggggggtggga gctgactaat 300

aatcagaacc aaccttgggc aagaatctta ctctccagat atggtggcgg gaaggagtgg 360

atctttggtg gaaagagcaa atcttcctct 390

<210> 19141
<211> 275
<212> DNA
<213> Glycine max

<400> 19141

tacctgatg aggattgtcc atatgttctt aaaactggac tgatcctttt gattccaaag 60

tttcatggcc ttgtaagtga agaccacac aagcatctga aagaattcca tattgtctgc 120

tccaccatga aaccaccaga tgtccaggag gatcacatat ttctgaagge ctttcctcat 180

tctttatagg gaagtggaaa ggattggcta tattaccttg ctccaaagtc catcacgagc 240

tgggatgacc tcaagagagt attcttaaaa aaaaa 275

<210> 19142
<211> 409
<212> DNA
<213> Glycine max

<400> 19142

taacacatgt ttccatgttc aatcaa atc agtgtaaga catagtttcg aaactggg 60

ttgcctccca ggaacacttc tttaatgtct ttttaagttgg atgtccttgt tatgacttac 120
 gccttcactg tttcatcatc cataattctt ttcttctttg taagaaaata cttcatgaat 180
 ttagtgatat ttggtatatg ctctaagcc ttacaaaaag gaatgttacc tctgtcgtt 240
 caaaatgtrt aagaacact tgtatttctt ttcttatat ttctttgacg gagcatacac 300
 ataaggaaga tgcacaagtg gcggatggct tactacaact ctacctttgc tagtggcttc 360
 tttctttgat ttcttcttga cgtaccactc tctcttcaac tttttcagt 409

<210> 19143
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19143

tgataatcat tntctttgcc tcataaaatg aacttggaag ctttccatgt tcaaatgcat 60
 cttgcaagag ttacaaaatc attgccatgg ctttgtcatt catccacac atgcatttaa 120
 tatgatacaa tttcaacaaa aaagacaacc ttgaatattt tgaaccttca tacaagggtt 180
 gttctgcac ttttggtaat tcataaaact ctteggcttc attcctttct gagtggtttt 240
 tgaaccatat cttcatccct atcaacctct acattgaagc aatgggcact tcattcgtat 300
 gctgcctatc aactctaaaa gcacattaa tcatattttg gataggatnt ttaataatgt 360
 tgtcttgaac tacatttgta tgtgagacat ttcgagtttc ttcacttcta gactcccat 420
 ggtacaacca aaatgtgtac ccta 444

<210> 19144
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 19144

agcttggtta cctccttctt cactacatca agaactactg gggtgagtct tctctatggc 60
 tgtcttattg gtttagcctc atcctctaaa tttatccgat gcatacatat ggatcggcta 120
 ataccaggaa tgtccgctag ggtccagcct atagccttct tatgcttctt gagaactaat 180
 aacaacttct cctcttgctc atcagcaagg gaggcagata taaatactgt taaacttttt 240

ctatcatcca agtaagcata ttttaaattt gatggcagag gtttcaattc tgggtgtgggt 300
ggctagatag tggtagaaag agatggtttc tcagcctgta cctcataaag aaagtcagag 360
gtatatgtac ttcctaaaac at 382

<210> 19145
<211> 442
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19145

tcatagggag tcatgctaata gtagagtga aaactattgt tataagtga ctttatcaac 60
ggcagaaaac tctaccaatt ccccttttgt tctaagacac acgcctcaa aaggtcctcc 120
agtgactaaa tggttcattc agtctgaggg tggtaggctg aacttagcct aagcttagtt 180
cccaacgctt tattcagact ctcccaaaat ctagagataa acctaggatc ctatcacaca 240
catgctatat ggcacaccat gtaatctgac aatctcaata atatataggg aggtcaactt 300
ctccaaggaa aatcttatat taatgggaat attgtgagca aacttgggtca gtccatcaat 360
aataacctag ataaaatcta aacctctggg ggtcctaagt agtcctacca canaatccat 420
ggaaatacta tcccacttcc ac 442

<210> 19146
<211> 385
<212> DNA
<213> Glycine max
<400> 19146

agcttgtagg gttaaagtct cacgattgtc acgtactcat gcaacaattg ttagccgtgg 60
ctatacgaga catcttgcca aacaaattca ggttaacgat aactcgctg tgctttttct 120
tccattctat atgtagcaaa gccattgatc cagtcatgtt tgatgagtta gaaaatgagg 180
ccgcaattat aatgtgtcag taggagatgt attttcccc tgctttcttt gacatcatga 240
ttcaattgat tgtgcatctg gtcagagaaa tcaaattgtt tggctctgtt catctacggt 300
ggatgtaccc gattgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatatt 360
gtccagaagc atctattgtt gagag 385

<210> 19147
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 19147

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tcgataacct tcgatagtga ccagtgaggc ctaacaaacc tctcagctgc tggatattga 60
aacggtgacag ccactctaca actgactgca ccttaatagc atccatatcc actccttcac 120
cagaaactat atgtcccaac tgctctatct tcaatacacc atcagagcat tcagacaact 180
tatcacaaaa aacattgtct ttcaacactt tcaatactcc tccagatgca taagggtcca 240
tgccatgtgg aactatatac caatatatca ctcaataacc ataacacata ttgccttaca 300
gcatgctgga taatatggct catcatacac tgaacagaat tcgtagcatt ggtcaaacca 360
aaaggaacta ccaaccactc ataatggcca tgagggagca caaaggctga tcatgtcta 419

```

<210> 19148
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19148

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agcttatggg ttgcctcttg tatgcaggaa ggctggagag ctctccttat tctgagctgt 60
tgtccccaat tcattgggag atgacaaccg aagagctcgc acgacagttc tgcactctct 120
tgggtcagtc ctatgagaac ccactgagtg tagcagttgc agcaggagtt gagggggttg 180
ctatactgtt aaagctggca aatgtaatgg cagcaaagaa gcaggagtgg caggaaatga 240
agcagttgcc tgtgccagtt gaattgggta aggaatttca gttccattcg atttttgttt 300
gccctgtgag tagggatcaa ggaagtgaag aanatcctcc aatgctgcta ccatgcttgc 360
atgtcctttg caagcaatca attatgaagc t 391

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<210> 19149
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19149

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agcttctggg gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60

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tcttctattc ccacattggg aatgcctcta actgcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac ttttttggag 180
gatagacatg tggaggagta actggtttct tgaggtgtcc ataggtagca gttgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcactaagca ttctgactnt 300
gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa gttagcagtc 360
agtcctttca ccagcagtac tctgtccaga ct 392

<210> 19150
<211> 471
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19150

tagagcaatc tgaactttcc aagtgatcac caaaggcttc tgcacaaaca ttgacactct 60
ccaccctctn tgctttaagc ttttgtgctg cattccctgc ttccctcctta taaatctcag 120
atattattaga ggttgcagca gcacaatcaa gtgaatcatg atgtctctga ccagatgcac 180
aatcaagtga atcatgatgt caaagaaaac aagggaaaaa tacatctcta actagcacag 240
tatcttgctg cctcatttcc agtcatcaa acttgacagg atcaatgact tttctacata 300
taccatggaa gaaaaagcac aggtgagtta tggctaacc aactntgttt ggcaagatgt 360
ctcgtatagc cacggctaac aattgttgca tgagcacgtg acaatcgtga gactntaacc 420
ctacaagctt aagctccttg aactacacaa ggctcttaat atttgaagag t 471

<210> 19151
<211> 423
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19151

tattgaatnt atctctatag agtgtacaac aacgagagag atggactagc aaatcaagac 60
aagcttcatt gtgggagaag gctcatgaac gtaatgctaa gcgtgttcta aatttgataa 120
tagagatgga aggcttatgg gttaaacttg ggcaatatat gtcaacacgt gcagatgtgc 180
ttcctgctgc ctatatacgt cttttgaagc agttacagga ctctcttctt gctcaccctt 240

ggaagagttt ttcttcaatt ttttttattt taaaaatatt ctagtttatg ttatggaaga 300
 aaaaatgctt ttaggaaaca atgtacatta tgtggctgta ataaaaagag cccacatat 360
 tctntgagca ttgtagatga ttgttgttca ttaacctact acaacaattc aaagtctttt 420
 ctt 423

<210> 19152
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 19152

agcttatgac aattagaaat tctcgagagc ttccgatgat taattttgat cgtctcgata 60
 tattataagt ctgaatcgga cctacgtgtg aaaagttatg accatttgaa ttttttgaga 120
 gattccggtt tttgaatttc gagcgtctag atatattatg cgcctgaatt tgacttgcct 180
 gtgaaagggtt ataaccattt gaattttctca agagcttccg ttattcaatt tcgagcttct 240
 ctatatgtga tgcgcctaaa tcggacatcc gggaaaaaag ttatgaccat ttgaaattct 300
 caaaagcttc ggtagttaaa tttcgagcat ctcgatatat tattcgcttg aatctgacat 360
 ccgtgtaaaa agttatgacc a 381

<210> 19153
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 19153

tcatcactaa tttacaagag aaataggaat ctatcacaga tttagagagt ggaccggaaa 60
 tttatgagtg tatagataat aaaatctata aatattatac tctaataaat aagtttatta 120
 attacttacg acatattata gcttttttta attgatcata tgttattctc ttcttgacaa 180
 tagattacaa atcattgatg ataattgcta tcgaccgatg agttaatttc gtatgacctt 240
 tccacctaca atacgacaac cttattatac tagaaacaaa atgttacata aaattttata 300
 ttggtgtata atttataata gtcataatgc ctgaaaattt gaaatgaact tttaggacta 360
 ttatatatat 370

<210> 19154
 <211> 382
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19154

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agcttgtgca tccaataccr tgatgaagat gtcccatatg ttctraaaac tggactgatt 60
catttgcctc caaagtttca tggccttgca ggtgaagacc cgcacaaaca ttgaaagaa 120
tttcacattg tctgctccac catgaaaacc ccagatgtcc aagaggatca catatttctg 180
aaggcttttc ctcatcatt agagggagtg gcaaaggact ggctgtatta ccttgctcca 240
aggtccatca cgagctgnga tgaccttaag agagtattct tagaaaaaat tttccctact 300
tccaggacca caaccatcag gaaggatata tcaggtatta gacaactcag tggagagagc 360
ctgtatgagt actgggagag at 382
  
```

<210> 19155
 <211> 456
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19155

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tcttcagaag gacgtanatt ntgtgcttga ccagtcttgt agagaggcat ttgaggagct 60
aaggaggagg cttaccacct ctcccatcat gcagccatcg gattgggagc ttccatttga 120
gctcatgtgt gatgcctcca attatgcact tgggggttgt tttccgcaca gagttataga 180
ctatcacatg tcattgctta cgcctcacgc ctctagatgg agcccaagtt aactcaccac 240
catcgatacg agcttttagc tgttgttttt acattagata aatttagatc ttattagctt 300
ttctcccata ttactgtcta tactaaccat gcagccttga cgtacctatt gaagaagctt 360
gatgctaaac gtagattgat caggtagatg cttcttcaag agtttgatat tgagatcaga 420
gacagaagtg gtgcacaaca tgtggtgact gatcat 456
  
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<210> 19156
 <211> 378
 <212> DNA
 <213> Glycine max

 <400> 19156

agcttaaaag aataatttct agaaaagttat ccgttttctaa aacgcacttg aacacatctg 60
aattgaagta gatgaaaact gaactaattt tgtaagaaag tttttcactg caaaattata 120
aaatccttta tttgtatctt aagaaattgg ttatttctaatt cttagaaacg tcatttttaa 180
aaataatttc acaaaataaa tataaaattt tcatgtttgc ccaaaatttg tcatattgat 240
ratcacttcc agagtrgggt ctcattggtg acattaaact raatcaaaact aaattacaca 300
taatttatta tgttttatgt aatatttata caaatttgat aatgtgattt tcagggttag 360
tgttaattct caagtcaa 378

<210> 19157
<211> 451
<212> DNA
<213> Glycine max

<400> 19157
tataaactct atacaagaat gaagctctta taccacttgt tataaccagtg gcctcaataa 60
cttaagaggg ataggctcaa aatgcagaag aagtagcaat caatttataa atgttcttta 120
aatggacaaa attgattgca acaaaataaa tgagataagg gaagagagaa tgcaaacaca 180
atTTTTtatac tggtttggca aagtcctgtc ctacgtccag tactcaagta cccacttgag 240
atttccactc cttttgtaaa aatccgttta caaagtctga accacacagg gacaacccat 300
cccttgtgtt caggaatcat tacaacttaa gagaccctta gtcccttaat cagtctcttt 360
gaatgagaag aaagaaagaa gaattctctc ttgaagagaa ggatattaca attgaagtcc 420
atggagaaac tcttaataga tttgcaagta t 451

<210> 19158
<211> 393
<212> DNA
<213> Glycine max

<400> 19158
agcttgaatg caaactggat gcattgggtta acttggtaac ccagctggcc ttgaatcaga 60
aatctgtacc tgtcacaagg gtttgtgggt tgtgctcctc tgctgaccac catacagaac 120
tttgcccttc catgcagcaa cctggagcaa ttgagcaacc tgaagcttat gctgcaaaca 180
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acaacagaac aattatgacc 240

tctccagcaa cagatacaac cctggatgga ggaatcacc aatctcagat ggctagccct 300
 caacaacaac aacaacagcc tgctccttcc ttccaaaatg ctgctggccc aagcagacca 360
 tacattcttc caccaatcca acaacaacaa cag 393

<210> 19 59
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 19159

agcttttggg atcaattacg agcgtctcga tatactacgg gacataatcg gacatgcggg 60
 taaaaagtta ttgttatttg aatttgc tca tacgttctgt tttcaattac gatcgccctca 120
 atatattatg ggattcattc ggacatccga gtaaaaaattt attgccattt gaatttgcta 180
 cgagcttccg atttcaatta cgagcgtctt gatatacaac gaataacaat ccgacatccg 240
 agtaaaaagt tattgtcgtt agaatatgcc tccagcttct gtttcaatca cgagcgtatt 300
 gatataattac gggactcaat ccgacatccg agtaaatagt tattgccatt tgaatttgct 360
 catagcttct gttctcaatt ac 382

<210> 19160
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19160

ttccttgctc cttgatatat ttgagggact tatggtcatt atgaatgaca aattccttgg 60
 gataaacgca gcgttgccat gtattcaaag cccgcactaa agtatacaac tccttatcat 120
 aagtogaata gttaaaggta ggaccactta cattttcaca taaaataagt cattagatgg 180
 ccttcttgca ttcacacagt cccaatccca acatttgaag catcaaactc aatctcaaaa 240
 gattcctgaa cagttggtta cccaccatc ggggcattcc tatcttttgc ttaagaaaat 300
 tgaaagcttc ttcttgctca tattcccatt tgaaaacaac atttctcttg accaccttat 360
 tgagaggtgc tgcaatgtgc cta 383

<210> 19161
 <211> 393

<212> DNA
<213> Glycine max

<400> 19161

agctttgatc taccaccacc gcagccaccg tcactttaat tttctattat ttaatattac 60
tagtacttct cttcttagcc gtgtatttgg ctatattaag acatttggat aatttaglat 120
ctctrratrr gcargyfttg aatgaacaat tatgaattac arratatgac tatgtgrrrr 180
atatttttta attattcata tatgttttat ttgaatatta tgaatgactt tttggattat 240
aagacattct atgaagtatt atctttctaa gattgatgaa tgacaagtta tctttttgat 300
tgttttctat tcttttgtat aacatttatg tatgggtttt atatttcttg cctttctaag 360
tttgatgaat ggttaaatta tcttgtttaa ttg 393

<210> 19162
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19162

tctatagaag gttcgttcct aatttctcta caattgcac acctctcaat gagctggtga 60
agaagaatgt ggcatttacc tngngtgaaa aacaagagca agcctttgct ttgctcaaag 120
aaaagcttac taaggcacct gttctagctc ttcttgactt ttctaaaact tttgagctag 180
aatgtgatgc ctctggagtg ggagttggag ctgtattgtt acaagggtggg caccctattg 240
cttatttttag tgaaaaactt catagtgaca cctccctac cccacctatg acaagagctt 300
tatgccttaa taagagccct ccagacatgg gaacattacc ttgtttccaa ggaatttgct 360
attcatagtg atcatcaatc acttaagtac attagagggc atagcaagtt aaacaag 417

<210> 19163
<211> 370
<212> DNA
<213> Glycine max

<400> 19163

agctttggag tttccaagtg ccaactcgtc ttcttcttta gtccagcctt cttctggctt 60
caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120

gacagctttc caggttctgc tatccactga tttgaggaag gccaccattc ttgctttcca 180
atattcatag ttgcttccat cgagaattgg tggctctgtc actggtccgc cttctttctc 240
catgttcac cagaatttatc tccctagatc tcactatgct atccccgagcg tcgctctgat 300
accaattgaa attctgatac caccgggacag atgtcgtacc ggatgtcacg acatcacgct 360
"CAAAACATG 421

<210> 19164
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19164

tgaaatcgaa aacggaagct ctaagaaaag tcaaacgaca atacctttta actcgtatgt 60
ccgattgagc tcttgaata tatcgagacg ctcgaaattg aaaacggaag ctctaagaag 120
agtcaaacga cactaactct tgactcggat gtccgattga gtctcgtaat ataccgagac 180
cctcgttaatt gaaaacaaac gctctgagta aattcatagc acaataactt ttcactcgga 240
tttccgattg agtgccatcg gatatcgaga cgctcgtaac gcacacggaa gctctgcaca 300
agtnaaacga caataatttt taactcggat ctatgatgga gccctttaat atatcaagac 360
gctcgaaatt gataacggaa gctctatgaa aagtcaaacg accataacta ctgactctga 420
t 421

<210> 19165
<211> 393
<212> DNA
<213> Glycine max
<400> 19165

agcttcgacc cctccgtcgg aaacctagtc cagaacttct ccttcggatc aaaatcacc 60
tgcttaagct cccgcaaaat cgaagcctcc ttcccaacag tgtacctgca caaatataaa 120
gttaaaaccc aaaaagcatc taaaattctc aataaaatca aaaacaaaaa gctctagtgc 180
ttcattcacc ttatcccaa ttgcagatta agcatcaact cataattctt atgccccttg 240
gaaactgttt atccaggtct tttcacctcg ctcgagaaaa acaacggttc ctctcatctc 300
tttctctata caatccgacg tcgttccgtc ggggtaaaac atcgacgcct tcacattatc 360

gataatatcg cacgtgatgt caccggctcc acc

393

<210> 19166
<211> 243
<212> DNA
<213> Glycine max

<400> 19166

ctatcaaagg cttggcaaga caggtagttg tggatgcatt gacgtacaca acagtgacat 60
catgatactg tactatctat gcacttaaaa cgactctatt aaagggttaa gactacgcta 120
ctgcatatgt gatctgagat gagatctacc atttatacct gccgaaagga catacacaat 180
ttatgcacct tatcaattat gacgtactca ttacctacct ctgacttgaa ggtgatacat 240
gac 243

<210> 19167
<211> 364
<212> DNA
<213> Glycine max

<400> 19167

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagc tgaaagcctt ggaggaaaga tgtatgccta tgttgttggtg gatgatttct 120
ccagagttac ctgcgatcatc tttatcagag agaaatcaga cacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagaaaaag actgcgatcat caagagaatt aggagtgacc 240
atggcataga gtttgaaaac ggcaagttta tcgatcctgc acattgaacg catcactcat 300
gagtttctctg caaccatcac accacctcaa aatggcatag ttgaaaggaa aaacaggact 360
ttgc 364

<210> 19168
<211> 376
<212> DNA
<213> Glycine max

<400> 19168

agctttatct tcacagaaat cgtgtgattt ttttttctct cggcgagacg attgtgccta 60
agaaaatctc gagtagttga catgcgttgc ggttcacgcc gacgggaacg ggtgacaacc 120

agaggattac tccccgtcctg atggagggcta ttagcgggctt aatcgaactg tcttgatcatg 180
gctgtaccgc ggtaaataaaa agattcttct ctgaagattc gaatcctact gatgaactta 240
ttcgttgcag tatgctgtga atatgaatgc ccgctacctt ggcattccacc gattgttgta 300
aagtgaaagc tgccgggtgcc tacactatga agtaatgcac ttttgcttc ctatcctact 360
catacattct gaattt 376

<210> 19169
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19169

tgaaaaaaac cactccgttc aggggatttt,cttcctgcac cagctatttt tcttctagat 60
ccaacagtga gagagaaatt tcaaaaacac cattccttaa gacggatctg taatggctctt 120
atggaatgtc aatccgtttg tctatacata atttttaaaa atgtatttta caaattaatt 180
taaaattaat agctcatgta gaattcgaac ctatgacttt aaggttatta acacaacact 240
ctaattgcaa taagccaatt atattataaa ataattacat tgttttatgt aactactaaa 300
tttctaattg atatttaatt cacatgtaag tntatataat aattttttgtg ataattttga 360
tctcataatt aattctttta catatataaa tttttattaa acgtataatt tttatt 416

<210> 19170
<211> 385
<212> DNA
<213> Glycine max
<400> 19170

agcttgtgca ttcaatatcc tgatgagggg gttccatatg ttctaaagac tagactaata 60
catttgctgc ccaagtttca tggctcttgca ggtgaagatc ctcataagca tcttaaggag 120
ttccatattg tttgttccac catgaagccc cctgatgtcc aagaagatca tatctttcta 180
aaggcttttc ctattctctt ggaggagtg acaaaagatt ggctatacta ccttgctctc 240
aggtccattt tcagctggga tgaccttaag aggggtgttct ggagaaattc ccctgcac 300
taggaccact gccatcagaa aagatatttc aggcattcagg caacttagtg gagagagctt 360

gtatgagtac tgggaaagat tcaag

385

<210> 19171
<211> 371
<212> DNA
<213> Glycine max

<400> 19171

agctttgagc caattcaaac aacaataact ttttactcga atgtctgatt gagtcccgta 60
acatatcgag acgctcgaaa ttgaatggtg aacttttgag ctaattcaaa cgacaataaa 120
atttttctcg gatgtctggt tgagtcccggt agcatatcga gacgctcgaa attgaatggt 180
gaacctctta gctaattcaa acgacaataa cttttttcac ggatgtctga tagagtcccg 240
taacatatcg agacgctcga aattgaatgt tgaagcttca gccaatcaa acgacaataa 300
cttttttctc agatgtctga ttgagtcccg taacatatcg agacgctcga aattgaatgt 360
tgaagctctg a 371

<210> 19172
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19172

taaacattca atttcgagcg tctcgatata ttacaggact caatcaaaca tccgagaaaa 60
aagttactgt cgtttgaatc tgctcagagg ttaaaccattc aatttcgagc gtctcgatat 120
gttacgggac tcaatcagag atccaagtaa aaagttattg tcgtttgaat tgtcttagag 180
cttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatgaga catccgagta 240
aaaagttatt gtcgtttgaa ttggctcaga gcnttaacac ccaatttcga gcgtctcgta 300
tatgacggga ctnaatcaga catccgagta aaaagttatt gtcgtttgaa ttggctcaga 360
gcttcaacat tcaatttcga gcgtctcgat atattactgg actcaatcag acatccgaga 420
aaaaag 426

<210> 19173
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19173

ntagattcct ttaaagtttt taaggttgaa gttgagaaac aatgtggaaa acaaatataag 60
atcgtgagat cagatagagg tgggagtact atggtagata cacagaagat ggacaagcac 120
caggttcatt tgcgaaattt cttcaaaaac atgagattgt tgcaccaatac actatgacctg 180
attctccgga tcaaaatggg gtggcagaaac gaagaaatcg aaccttatta gacatgggtga 240
gaagcatgag gagtaatgta aagctttctc ccctttgtgg attgatcgct taagacggat 300
gcgtatatat taaactgagt tccaaccaag gctgtctcac agacaccttt tgagttattc 360
aacggttgga aaccatgttt gcgacatata cgcgtatacg gatgcccgtc tg 412

<210> 19174
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19174

agcttgaaga aaaaaggcca gtaagtaatg tataaattaa catagtgtga aagatgagaa 60
aaattaatct taaccattaa ttaatcaacc cctatattat aaatgactac cattatttgg 120
tacgaattga gacgaaaaag aattacaaat catgtcaaat catttattta atctatacta 180
tcatttatgt ctatttctaa attgaattat caataaataa ttntattcta ttagtacatg 240
tgccatttat tctaaaatta aaattaataa ataatttgta acactaaatt tatcatagta 300
aataatatac accaattatc aaacgtgtaa gtgttaccta agaagtcctt ttctccatcc 360
ataagaataa agtaaaggcc tatcgacat ataaa 395

<210> 19175
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19175

tcaagaaaaa gatggcctca gcaaattcct tatttcata aggaaattct atcaacagac 60
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120

aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180
tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240
gagatagatg gtctgaagag gatagaaaac gagtacacac aacctaaaag ccaacacata 300
ataacatctg ncttaggaat ggatgaatat ttcagagttt caaattgcaa gagtgctaag 360
gaaatgtggg acactctctg attaacacat gaaggaacta cagatgttaa agatc 416

<210> 19176
<211> 392
<212> DNA
<213> Glycine max

<400> 19176

agcttaacta tttatggatt tccccacca tccattctat agtccatttc accattagcc 60
tccaccaaca acctccaaca ctaggttgaa gaccttctta gcaccccaaa cttacgtgcc 120
tactcacatg caacaccatt cattaatgca tgtatgctat gatcattcaa ataaaaatca 180
ttgtatcaca ctattaacat attcattcac catcatcaat ataattcatt tcattcaacag 240
ctcaatccat tatatattaa ttcaattcat catacatatc gccattcaac atacaattta 300
gcattcatat gttgttcaat tccacatcaa ttcattcttc atatcattct caccatccat 360
gaactctcaa atagttcatc tacacctcat ga 392

<210> 19177
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19177

tcaagaataa tggacttagc acacttctta tttctataag gaaattcaat caatagacct 60
ccaatcttta atggagaggg ttaccactac tggaaaaccc gaatgcaaat ttttattgag 120
gcaatacact taaatatttg gcaagtcata aaaatagggc cttatatacc caccacagtt 180
gaaagaacca caatatatgg aagcacaaca agtggagca caacaataga aaaacctaca 240
gatagatggg ctgaagagga taaaagacga gccactataa tttaaaagcc aaaacataat 300
tacatttgac ctgngaattg atgaatattt caaggtttca aattataaga gtgctaagga 360
aacgtgggac actctacatg taacacatga aggcacaaca gatg 404

<210> 19178
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 19178

tagcttatgc tgcaaatatt cacaatagac ctgctcaacc tcagcagcaa aatcaatcac 60
 agcagaacaa ttatgacctc tccagcaaca gatacaatcc cggatggagg aatcacccta 120
 atatcagatg gtctagccct caacaacaac aacagcagcc tacaccttcc ttccaaaatg 180
 ttactggctc aagcagacca tacattcctc caccaatcca acaacagcaa cagccccaga 240
 aacaacaaac agttgaggct cctccgcaac ctttccccac caactttcac gcacatgatt 300
 atgcaaaaaca tgcaggttct acaagagagc acaggctcca ttcagagctt aactaatcag 360
 acgggacaat tggctaca 378

<210> 19179
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 19179

tcaatggagc tacatcggtt ttgtagggca cctagactag tttttgtact agaggtagtt 60
 ttgtaatttc acatgcatta agtgaatatt tgatgtgtgt gttcgaaaat aaatttaatt 120
 gaattgggag aagcccaatc caattaaatt ttagaggggg aggtgagcat ttgcttgcta 180
 caccctattg ccacatcata ttgtcacact ttgtgcatgt ctttcattgt ttacatgcct 240
 catgaccctt aagtacactt actggagaat ctcgcacttg atcttggaca gtgggctgaa 300
 ccatagctaa aatttcttaa tcataattaa tgaaaatgtg gctccacata ttcacacca 360
 aattcaagtg aaatctgaat agaaattcaa atctacctcc cattttgtga gacacttacg 420

<210> 19180
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 19180

agcttgttgt ccgtgtacac ggttccggtt atggtggcat tgacggcacc ggtggctcatg 60

ctcacttggc tgccaccata agtggtgaca ttaagttgca gcctttttaga gtcacaccg 120
gcttgggtct gaacggggtt ggtgagagtg tcgaagttgg agattgagag gaaggaagaa 180
agagtgtgaa attgtaaaag ttcaaccttt tgccgtgctg tgagtgagtt gaggaatcct 240
gcttttagct ttgagaaggc agaalcaggt ggcacaaaat ggtcatcccc cagaacctga 300
cgtgaggagt tgagagttga gttggttgat caactgggtc gcttccagaa gccgaatcag 360
aacagaaaat ctct 374

<210> 19181
<211> 417
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19181

tagctntatt ccttacaacc actaccatcc aaatgggtgg aaataagaaa tgttgggctt 60
acgtcctttc cacaattcat aagaattcct ttttaagattg gcctaataata aattttattt 120
tgtaaataat agacaatggt tattggttca gcccataagt gtttaagggt tgagtgatca 180
ctaagcatgg tcctagccat ttctgaaga aatatacttt tcatttacct ctaaacadat 240
tctaatttgg tggtcttggg gtggaaaatt gtggcatac cattctcttc acgaatattt 300
caaaatatca ttttcaaatt ccccccatg attacttcta attgaagaga tacatgataa 360
tgactattga attactccaa aacaaataaa actaggaaat tntgcaatac aggatta 417

<210> 19182
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19182

tagctttatt ccttacaacc actaccatcc aaatgggtgg aaataagaaa tgttgggctt 60
acgtcctttc cacaattcat aagaattcct ttttaagattg gcctaataata aattttattt 120
tgtaaataat agacaatggt tattggttca gcccataagt gtttaagggt tgagtgatca 180
ctaagcatgg tcctagccat ttctgaaga aatatacttt tcatttacct ctaaacadat 240
tctaatttgg tggtcttggg gtggaaaatt gtggcaatac cattctcttc acaaattttt 300

canaatatca ttttcaaatt ctcccccatg attacttcta attgaagaga tacatgataa 360
 tgactattga attactccaa aacaaataaa actaggaaat tttgcaatac a 411

<210> 19183
 <211> 374
 <212> DNA
 <213> Glycine max
 <400> 19183

tagcttcaac attcaatttt gagcgtctcg atatataacg agactcaatc agacatccga 60
 gtaaaaagtt attgtcgttt taattggctc agagggttcaa cattaaattt cgagcgtctc 120
 gctatattac gggactcaat cagacatccg agtaaaaagt tattgtcagg tgaattggct 180
 cagagcttca acattcaatt ttgagcgtct cgatatatga cgagactcaa tcagacatcc 240
 gagtaaaaag ttattgtccg tcgcattggc tcagagggtc accttcaatt tcagcgtctc 300
 gatatgttac gagactcaat cagacatcct agtaagaagc tattgctcgt tgaatttgct 360
 cagagattca acat 374

<210> 19184
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19184

tatgctgcac acatctacaa cagacctcct caacctcttc agcaaaaaca accacaacag 60
 aacaattatg acctctccag caacaggtac aatccccggg ggaggaatca tcccaacctt 120
 agatgggtcga atccttcacg acagtagcaa caacaacctt attttcaaaa tgttgctggc 180
 ccaagcagac catacgtnc cccaccaatc cagctgcaac aacagcaaca gcccagaaa 240
 cagcaaacag ttgaggcccc ttgcgaacct tcactogaag aacttccagg caaatgacta 300
 tgcaaaacat gcagtttcaa caagagacca gagcctccat tcagagctta accaatcaga 360
 tgggacaatt ggctacacag ttacatcaac aacagtccta caattctgac aga 413

<210> 19185
 <211> 381
 <212> DNA

<213> Glycine max

<400> 19185

agcttagtgt tgcaataatt taatataatt tactttattt tacttagtat ttcttaacta 60
aactaattaa tgtatcgaat catctaattt attaagtgtt tatttttgta atatgtgaag 120
tataaataaa acaraacaga caagaaagaa catttttccac gaaagaatga aaagaaacac 180
ttatgtcatg ggatgatcaa cttaattacc ttaaattatg ttaatatctg aataacttac 240
gaaaaattta tgaattatta taattttact acctcaaatt tattttgtaa taaatttaat 300
atgaatttaa ttgtctttc ttatcataag gttctgacat gtttgtttga cttacagggg 360
ccttcaacta aaggtgagtt t 381

<210> 19186

<211> 287

<212> DNA

<213> Glycine max

<400> 19186

ttagagctcg aatatgccct ataatgagtc tgattacaat tcgatgtgcg acagacttcg 60
acgtagggat tgataatacc ctggagctgc ccatcttagt aggcttgaaa gagatcgctg 120
ttagcacagc tgacgtgata gcgaatacgc tagcacggat cagacttgct atttgatgtg 180
caagctgtat tgcgaatggc tcctgaagcg gaatttaatc cttacgtata tgtcccgcca 240
atcacaccgc catggtgcat tctctatata acttgcaactg atgctgc 287

<210> 19187

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19187

tgaagganaa cttgatgcct tggtaacct agtaactcag cttgccatga atcagaaatc 60
tacacatgtt gcaagagttt gtgttttatg ttctttetaca gatcaccata cagatctttg 120
tccttctttg cagcaatttg gagtcaatga gcaacctgaa gcttatgttg caaacattta 180
taatagactc cctcagcagc aaaaccagca acaacagaat aattatgacc tttcaagcaa 240
tacatacaat ccaggttgga ggaatcatcc aaatcaagat ggacaagtcc tcacgacaac 300

aacagtctgt cccttctttn tagaatgctg ctggtccaag caagccatat gttcctcctc 360
 caatgcagca acagcagcag cagtcacaac aaagccaaca agcaacta 408

<210> 19188
 <211> 235
 <212> DNA
 <213> Glycine max
 <400> 19188

agcttccatt gttcaatttc gagtgtctcg ctatattatg cgctgaatc ggacctccga 60
 atgacaatgt atgaccatct gaacttctcg agagctacca tcgatcaatt tcgcgcgtct 120
 agaaatatta tgcgcctgaa tcggacctcc gagtgaaaag atatgaccat gggaatctct 180
 cgagagcttc cgatgttcaa tctcgaaagg ctagatctat catgcgagag tatgc 235

<210> 19189
 <211> 418
 <212> DNA
 <213> Glycine max
 <400> 19189

tgtgcattca atatccta atcaggttttt catatgttct caagactgga ctaatacatt 60
 tgctgcccaa gtttcatggt cttgcagggtg aagatcctca taagcatatt aacgagttcc 120
 atattatattg ttccaccatg aagcccttga tgtgcaagaa gatcatatct ttctaaaggc 180
 tattctcat tctttggagg gagtggcaaa agactggcta tactaccatg ctcccaggtc 240
 cattttcagc tacggtgacc ttaagaggggt cgccttgag aaattctcga gacaaatgac 300
 catacagaat atgcaatttc agcaagagac aagagtctcc attcagagtc tgacaaatca 360
 gatggggcag atggctactc agttgaacca agctcagtc cataattctg acaaattg 418

<210> 19190
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 19190

tattaggaac tataaaactc agcttcacaa atagctgata gaatcaattc acagctgaac 60
 aactcaaacc aaggcctaac cgtgtttgca cccactgata atgcattctc aagcctcaaa 120

gcaggaacat taaactccat aaactcacia gaccaaagtc agctgataca attccacatt 180
 ctccccactc tctacaccat ctcacagtcc caaacgcgaa gtaacccctt gcacacgcaa 240
 gctggaaaca gtgatgatgg agagtatcct ttaaagtga ccacctgacg cgaaccaagt 300
 gaatgtcgaa ctgagggtgt tgatacaaca gtgiccaaata ctatctacag tgatactcat 360
 ctctcaggtt atcaagtgaa taagggtggt cttctatga agcttttcgg cgcacggca 420
 ccggc 425

<210> 19191
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19191

agcttctctg aagttaaacc acacacatat atatatcaag acatgggaca aaatagttct 60
 tacaaaaatg ttttccccag aacaagtaca cgtaaattat aacaaatgaa caaacaaaaa 120
 agcatacttt cattttctcc tatcaaattt atcctgagaa aacaaacaaa agtgagtcac 180
 ttacagggaa caaattcttc cagaactgaa gatcagttt aggaggctca actatcttgg 240
 tggcccaaca gaacaacatt atgagagagc cacatgcaag ggagagagtt gaggtaagcc 300
 aagggtatgg gaatgcattc agcaccttct tgttataaat gttgaacacc acattcagt 360
 cccaccatgt tgcanagtat atcccaatct tcaccttctt a 401

<210> 19192
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19192

aattgtgatt ctgcattttt tttcctaagt atctagatta ccagtgtttc tccatcgatt 60
 aagattaatc ttattagtaa tatataacta ttattaattc aaaaaaaaaat tacacataaa 120
 gaaaatcaaa cttaaattgt ttgttaaata aataattctc ctacatataa atacaattta 180
 caccactata tcaatcctat aaactaattt tgaatttgaa tttgaattta cacaataaag 240
 tttgttcaat tgttgtaaga taatatctta ttatattttt ttagattagt ataaaattga 300

ttaaataata tcctattata ttagtcataa taggacaatt cttaaattga ttaattagtt 360
aatctgattt agaatagctc aattgcattc ggtgaaacat acttgtgatg cagaaagaac 420
aggttcaagt ttcaagtatc taagacatgg ntgtatataa cctat 465

<210> 19193
<211> 533
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19193

cgctccaaaa cgtcttcggt cggctccgct ctgttttctt tcaccgagtc ggacgaagga 60
gacggagttg gcggcggcgg cggcggatgat ggatgggaca acggtgacgg cggaggggtcg 120
gggttttggg attcgaataa tgggaatgat agcacggact tgtattaccg gacgatgatt 180
gaagcgaatc cagggaaacc tctgtttctt ggcaactacg cgaggtactt gaaagaggta 240
cgtgaattga agctatttag ttattacttt tagattaaag cgtgtagatg gatgaggtga 300
tagagttggt tatttgatgg caggttcgag gggactatgt gaaagcggag gagtattgtg 360
ggagagcgat tttggcgaat ccgaatgatg ggaaggtgct atcgatgtat gcagatttga 420
tatgggagag ccagaaagat gcttcgcgtg ctgagactta ttttgatcaa gcggntanna 480
gcagctccga tgactggtaa ctaacatcaa actcttgggt ggttctcttt atg 533

<210> 19194
<211> 463
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19194

caatgagctg gtgaagaaga atgtggcatt tacctgcgtg aaaaacaaga gcaagcgta 60
gttttgcetca aagaaaagct tactaaggca cctgttctag ctcttctga cttttctaaa 120
acttttgagc tagaatgtga tgctctaga gtgggagttg gagctgtatt gttacaaggt 180
gggcacccta ttgcttattt tagtgaaaaa cttcatagtg ccaccctcaa ctacccacc 240
tatgataaag atctttatgc ctttaataaga gccctccaaa cttgggaaca ttaccttgtt 300
tccaaggaat ttgtcattca tagtgatcat caatcactta agtacattag agggcanagc 360

aagttaaaca agaggcatgc aaaatgggta gaggacacac accaatctcc ataggttatc 420
acatacaaaa agggacaaca aatgtggtag ctgatgcgtc tct 463

<210> 19195
<211> 500
<212> DNA
<213> Glycine max

<400> 19195

gacattcatg gtgctccgaa caaaggtgga gtatggagga ttgccttgag ggtccgcact 60
taggcaatca tgaaactcag ctccaaactc aaaagtggag gacacatgaa caaccctaag 120
caataacatt catgtgtctc cggaaaagga cgagaatgga ggattgcctt gagggtcctc 180
tcttaagcaa tcatggaata cagctccaaa ctcgaaaatg gaggacacgt gaatgacaat 240
gcaattcact cacgtggctc cagaaaagga tgagaatgga ggattgcctt gagggtcctc 300
tcttaagcaa tcatggaaca caactccaga ctcaaaagtg gagaacacat gaacagccct 360
aagcaataac attcatgtgg ctccagaaaa ggatgagaat ggaggattgc cttgagggtc 420
ctctcttaag caatcatgga acacagctcc agactcaaaa gtggagaaca catgaacagc 480
cctaagcaat aacattcatg 500

<210> 19196
<211> 400
<212> DNA
<213> Glycine max

<400> 19196

tttgcttgct tatttagtag acccttgaag ataaaaccat tacatttttg ttcagaacag 60
catgtgcaaa aatgtaactg atgaataaaa cagagaatgt atgccaatga tataagcaat 120
agtttaaatg gtatttaatc tgatgtgaaa gccatacaaa caaaccttaa cagcaccatc 180
atagtctgtg gaggcaagat agttctggat gtagttattc caacaaacac aactgagcct 240
tgatctgttt gacatctcaa ctacaggata atggatgtca atggaatcat tgaaaagtgc 300
attgaactca aatattttta ttttctttga tatcccagca gcagcaaagt aatcttcac 360
cctatcaaaa ctgagagagc atattacatt tgcaggatta 400

<210> 19197
 <211> 526
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19197

ggcactatca cgacctgaaa gaaagacccr tcttcgatgg gctgtgtgat tntcraagcr 60
 ctggccctgt tattgcaatg gttagaaaat ataaatgact caaccactga cttagaagatc 120
 caacaagcca gtgtccctaa tctgtctttt tttcttggtt ccaaaaattg atatcatacg 180
 tgtgggaagg acaaggagtt atttcctatg gccgaaagct aattggagcc acagatccac 240
 agaaatcaga acctgcaacc attanggggtg atcttgctgt tgctgttgga aggtaactaa 300
 tagcatgttt ggttacaaga tgtgggtttt acgtgtactg agatgtttat agttataatt 360
 ntcacatcca aaatgtaatt tcttacttct taacnntggt caaacatcng tataattggt 420
 aaccanagaa aagtgttagt ttcgtttctc ttacataat gaattgtcca tttattggtg 480
 atcacaattt gataattggt gtcatgcatg cagaaacatc atccat 526

<210> 19198
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19198

ctctaagggc taccgtgtct acaacttgca aactaagaaa ctcgtcatta gtcgagatgt 60
 tgaagttgat gagtacgctt cttggaattg ggatgaagaa aaagtggaga agaacgttct 120
 tatacccgct caactacctc aagaaaaagc tgaggaagaa gaccaggtg aaccaccttc 180
 aactccacca caacaacaag atcaagaact atcatcacca gagtctactc caagacgagt 240
 aagatctttg gtggacatat atgaaacctg taacttggcc atacttaaac ctggaagctn 300
 tgaagaagcg ttaaagcagg aagtatgggt caaggcaatg gaagaagaga tacagatgat 360
 cgagaaaaac aacacatggg agttagtaaa tcgtcccat caaaaagata tcattggggg 420
 taagtgggtc tataagacan agtcaaccc tgatggcacc ataca 465

<210> 19199
 <211> 501

<212> DNA
<213> Glycine max

<400> 19199

cagaccctta ttccatTTTT ttaaccaagc cacaactaag tctctcgta cccattatct 60
ttggccttgg ttgttacttc ttctcactt cctctctgca cattttttgt ttctaafccc 120
tctatttagg tatgttttta tggcatttaa ataactagca tctctctat tattcgarra 180
gtatgactga acatgatgat tatatttatt tgctattggg tgtttacggg tatgagtttt 240
aaactcaatt attttgatga tatatgacta gtgggatgta cttttatttg gttattatga 300
atgactttct ggattatatg acattctatg aagtattata tttttagtgt gatgaatggc 360
tatgatatct tgtttgattg gtttctatcc tcatgtatcc tggctatatt attatgcat 420
ttgaacaatc taactatttc ttatttgcac ggtatgggtg aacaagtatg ctatttcgct 480
atgtggattt atagctaac t 501

<210> 19200
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19200

tggcccatcc caaaaagtgt gggagatatt aggagcttcc atgggtagc aagcttctat 60
agaaggtttg ttctaatTTT ctctacaatt gcctcacctc tcaatgagct ggtaaagaag 120
catgtggcat ttacctgngg tgaaaaacaa gagcaatcct ttgctttgct caaagaaaag 180
ctaactaagg cacctgttct agctcttccT gacttttcta aaacttttta gctagaatgt 240
gatgcctcca gagtgggagt tggagctgtt ttgttacaag gtgggcactc tattgcttat 300
tttagtgaaa aacttcatgg tgccaccctt aactaccctc cctatgataa agagttnat 360
gccttaataa gagcactctg aacttgggaa cattaccttg taccctanga gattttcatt 420
catagtgate atcaatcact taagttcat 449

<210> 19201
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19201

agactggaaa gcggtttcta atgactcctc tgcggcttcc acataaggca tagaggatgg 60
gcagctcacc aagatgtctt cctcgcttga taagatgacc agatgccctt ccactacgaa 120
tttcaacttt tggtaggagt ttgagggaac aacccccact gagtggatcc acgggcgccc 180
caatagacag ctgtaggggg ggtaatatc cattatttgg aagggtgact gacaggtgtg 240
agggcctatc tgtactggga gatcgatctc tcccctaacc tctcggcggg tgccgtcgaa 300
ggcacgaacc accattgaac ttggctttaa gtgggaggca ttgaatggta atttctccaa 360
agtgatctta ggcacacgt ttaaactgga accattatcg atgagcactt tggctacgat 420
atggtccata cacttgactg atacgtgcan agccttatta tgcctt 466

<210> 19202
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19202

ttgatggggc ctatgcaggt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg 60
gatgatttct ccagatttac ctgngtcaac tttatcagag agaaatcaca aacctttgaa 120
gtattcaagg agttgagtct aagacttcaa agagaaaagg actgtgtcat caagagaatc 180
aggagtgacc atggcagaga gtttgaaaac agcaggttca ctgaattctg cacatctgaa 240
ggcatcactc atgagttctc tgcagccatt acaccacaac agaatggcat agttgaaagg 300
aaaaacagga ctttgcaaga ggctgctagg gtcattgttc atgccaaaga acttccttat 360
aatctctggg ctgaagccat gaacacagca tgctacatcc acaacagagt cacacttaga 420
agaggcactt caaccacact gtatgaaatc tggaagggan gaagccactg tcagcacttc 480
acatctttga agtcatgtac a 501

<210> 19203
<211> 397
<212> DNA
<213> Glycine max

<400> 19203

ttgcttatcc tatgcttctt tggccgtcgt tgcattagat atcttctcaa atgtatcttc 60
 atccaccgat tgataaatga gaaagagagc tttcttgtct ctctttcttg actccttcaa 120
 cgtctccttt acaccttgac ttagcgagge ttcattctgc tctcgaagc cattctctac 180
 gatatccac acatcttgag ctcttagtag cgccttcac ttgttactcc aattatcata 240
 gtrgttcttt gtgagcatcg gcatttggaa aggaaaacct ccattcgca tctttgagg 300
 atcttgaagc tctgatacca atttgttga aataaggctt tttatgttta ggaaaagtgt 360
 ttaagaatat tggagactct gaatagaaac ttgatag 397

<210> 19204
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19204

aaatctgcac ctgtcgcaag actctatggt ttatgctcct ctgacgacca ctatatagac 60
 ctttgccctt ctgtgcagca atcttgagca attgaacagc ctttaagctta tgttgcaaac 120
 atctacaata gacctctca accttagcag caaaatcaac cacagcagaa caattatgac 180
 ctctccagca acagatacaa tcccggatgg aggaatcacc ctaatctcaa atgggtctagc 240
 cctcaacaac aacaacagca gcttgcctt tctttccaaa atgctgctgg tccaagtaga 300
 ccatacattt ctctccagt gcaacaacaa caacaacatc aacagagaca acaatccact 360
 actganggcc ctctcaacc ttcattggaa gaattagtga ggcacatgac aatatagaac 420
 at 422

<210> 19205
 <211> 541
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19205

cctctcataa ctaagctcac ctcttgaga agcttcctta agaagattcc taaagaagct 60
 agagcttagc tacacgtacc tctctaatag ctaagctcac ctcttgaga tgagaagcta 120
 gaacttagct acacaccccc tataatagct aagctcacc ccatgacaaa aaaacatgaa 180

aatacaaaaa aaagtcctta ctacaaagac tactcaaaat gccccgaaat acaaggctaa 240
aaccctatac tactagatgg ccaaaatata agggccaaac gaaggaaaaa cctattctaa 300
tatttacaaa gataagcggg cttatacttg gcccatgggc tcgaaatcta ccctaaggct 360
catgagaacc ctagggcctt cccttggatc tctagcccaa tctacttga gtcttctacc 420
caatgccctt gcgggaragg attgcatcat aacgtatcta ccatanatgc gatcatcttc 480
cttttcatca tgggcggtac gacttgggt gcgagaatct ctcacttnt tgcatttcc 540
t 541

<210> 19206
<211> 326
<212> DNA
<213> Glycine max

<400> 19206
cgagagctac cattgttcat tttcaagggt ctctatttat aatgcccctg agtctgacct 60
ccgcgggaaa aggtgtgacc attggacttt ctagagagct acgttgggta attttcaagc 120
gtcgctatat ataatgcccc tgagtctgac ctccgaggta aaaggatga ccattggaat 180
tgctcaagag ctaccgtggt tcattttcaa gcacgctat atataatgcg cttgagtctg 240
acttccgagt gaaaggttat aaccatgcga attgctcaag agctcgcttt gtacagttcc 300
gagcgtgttg ttatattatg cgcctg 326

<210> 19207
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19207

ttgtttatct tttccttcaa catacattgt tgtaacttta ttggttgat aaggaagtgt 60
caacatgaga aaatggatcat atttgcttag ccaatcaacc accaccatga tagcattttt 120
cccttgtgat gttggcaacc cctcactaaa gtcaatggta acatcctccc acccttgatc 180
tggaattgca agaggttgta tcaaaccaac tggcttctgg gtttcatatt tatttactta 240
ngaaggcaat tgaatgttta tcttnggaga gcaccgcacc tatcacaata tcacttgcac 300
ctgtttttac agtgaatggt caagaaaatt tgacatgaca aatgttggtg tagacatcat 360

agttgtcttt aactcttcaa aagccttgga agatgactct atccaag 407

<210> 19208
<211> 399
<212> DNA
<213> Glycine max

<400> 19208

ctttccattc accacataca cactcccaat ttgactttta aagagaataa caagactata 60
tttatactgt cagcttcata cagaataaat atgaacataa atctgttaga tagaaataaa 120
tgtgaaatat atatcttttt ttaaaaaaag aactaaccat cgcaatagtg tcttctacat 180
cactccttgtt tctgcctgcc agacgccttt ttaaggattc aagtgcactc ctaagcttct 240
tcaaaagaac atgtttttcc aatgatgctg cctctctaag tctagcctaa acttcaccag 300
catacaaaaa gctagttaaa acaggaacat caatctatta gtaaactatg aatataatca 360
ttgggttattt cagttgcaaa ccatttacia taagaatct 399

<210> 19209
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19209

aaacatggta ccagcttgag agttaatcaa aaaattaatg atgcatcttt gtttccgac 60
agtcacatgca tcggacataa tagtacaacc atacttgacc cattgctccc tatggccttt 120
catcaaattt tcagtatatt caacttcctt cttcaagagt ggaactctga tgtcatgata 180
gctaggaatg ggcaaagtgt gcccatattg accaatggct gcaaccatgt tctcaaagct 240
tttcaattta atgaggttga atgacaaacc tgcttggtac caaaagcgag caatatgttg 300
atgcaccttc aatacttcat tcttatccat tgactctctt atgttcatct gcctcagcat 360
ctccattttt ctccgatnga ttgcattntc tggattctta cagaatntgt ccattgggtcc 420
tttttttagtc ccacactttg tctttgcact tgcagcagca ttacaagagt ccgcanactc 480
atcttcttca cttccatcac a 501

<210> 19210

<211> 402
 <212> DNA
 <213> Glycine max

<400> 19210

agctttctat tttcagtaga tgaagatgaa tctgtggcca cctcatggac tctcttaagg 60
 acaatagcar aatttcttgc acggaattgt gagttggaaa ccactctctc aatcaaatc 120
 ctagcctcag caaggggtcat atcaccaaga gctccaccat tggcaacatc aatcatactc 180
 ctctccatgt tgctaagtcc cttatagaaa tattgaagaa ggagttgctc aaaaatctag 240
 tggtgaggaa agcttgacac taatttcttg aatctttccc agtactcata caagttttct 300
 ccactaagtt gcctgatgcc tgaaatgtct tttctgatgg cagtggtcct agatgtaggg 360
 aagaatttct ccaagaacac cctcttaagg tcatcccagc ta 402

<210> 19211
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 19211

acaacagatc ttaattagga ccatttcgat gaaattgact cattacaact atgacttta 60
 caatgatgat tataaaaggt gcatgcatgt tatgttgcac gtgaatctag ttttaagacca 120
 tgcaataatg caaacaagta tacatttcaa ctaaaatgct accatgaaat gtttataagc 180
 caattaagaa aatgcaagct caccaattgc atcaacagtg gtttttccat tggaaaacct 240
 tccagaaggt ccaccaggga agtcaatccc ataaggcaag taatcagccc tagccaaaga 300
 ttggagctgg ttgttgttcc cattatcaac caaagaatca ccaaaaatga agtagcatgg 360
 aacttgtggc gcaccttgaa caccacccca caagccaaga gaaacaacaa caactatgag 420
 tgccaacatg cttattgtga gat 443

<210> 19212
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 19212

gagaagctag agcttagcta cacacacccc tctcataact aagctcacct ccttgagaag 60

cttccttaag aagattcgta aagaagctag agcttagcta cacatacctc tctaatagct 120
aagctcacct ccttgagatg agaagctaga gcttagctac acacccccta taatagctaa 180
gctcaccccc atgacaaaaa acatgaaaat aaaaaaaagt ccttattaca aagacaactc 240
aaaatgcccc gaaatacaag gctaaaaccc tatactacta gaatggccaa aatacaaggc 300
ctagatgaag aaaaaaccta ttctaataatt tacaaagata agcgggctca tacttagccc 360
atgggctcga aatctaccct aaggctcatg agaaccctag ggcctttcct tggatctcta 420
gcccaatcta cttggagtct tct 443

<210> 19213
<211> 527
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19213

aataaagcaa gttattgaca cagcttctcc caaaaaatac ttaggcaatt tcctgccttt 60
taacatgctt ctcacatgt tcatgatagt tctgttcctt ctttcagcca ccccatgtg 120
ttgggggtgta taaggagtag gtacttcatg aagcatccct tcatcacaat tatttttgaa 180
agtcatgtga agtatattca gctccacatc tgtccttata accttaatta cctttccact 240
ttgtttttca cacatcaatt tagacttctt aaaaacaaac aacacttcac tctttctttn 300
taatagataa atctacatca tccttgatg ttcacatg aaggatacga agtacctgtt 360
acctccaaga gactggatct canaggggtcc acacacatct tatttgatag tgagagttag 420
agagacattn tagagagaan aactgatatc atttcattct aaaaagttag ttacaaagag 480
gtatatatag acctctaaac ctctgaacta agcanacaga aacaacc 527

<210> 19214
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19214

acggcccaat aagcacggtg ctcaatctcc actggaaggt ggcctgcctt accaaaaacc 60
atcctataag gagaaatcct caaagggtgtt tggtgaagcg tccctgtgagc ccatagagca 120

tcttcaagta gctttctcta atcctttatg ttgggttgca ctaccttttg caacacttgc 180
 ttgatctctc tttgtgctgc tggggcatct catgcctata tgcaatagtc cctttcgctc 240
 tctaaaattg ctcacaagtg gtagaaaaat gatgagcatc tctaaaaatg gtggggccaat 300
 agaaccacaca atccaatacc ttcttagtgg tctactgagg accaaaatga ctgcgggtag 360
 gtotgccatg acaaaactga naaatagatt gaatctcatg atttggcaca catctgcgga 420
 tcacttggtc actaccaaac cttgaaaaat aaggatcatc ccacacataa tctttagcat 480
 cactcttaag nttatct 497

<210> 19215
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 19215
 aatcatecaa atatcgagaa ggacaagtcc tccataacaa taacagcatg tccctccctt 60
 gcacaatgct gctggctcta gcaagccata tgttctgct ccaatgcac accgactgag 120
 acaacacgct gctgaagccc ctcttaacc ttacttagaa gagtcagtga ggcaaatgtt 180
 catccagaat atgagatctc aacagcagac aagagcctgc attcagagtc tgacaaatca 240
 gatggcgcag atggctactc actcaaacca agctgagtc caaaattctg acaaaactgcc 300
 ttcacaaact atgcagaatc tgaagaatgt gagt 334

<210> 19216
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 19216
 agctttgggtt ttgttgactc gctccaatgg ctcatcatgt cttctattga acctttcttc 60
 atacgctcga agagaacca tcaattgggtc tacggctcatt gagtctaaat ccttagactc 120
 ttcaatagca caaaccacat aatcaaattt agcgattaag gagcgaagga tcttttccac 180
 cacacgaaca tcttccatat tttctccata acgcttcatt tgggttcacaa tagccaacac 240
 cttgttgcca aaatctgaga tagattcaga ttccttcata tgcaatgatt caaactctct 300
 acgtagagtt tgtacgcga ccttttttac cttatcaaca ccttcaaggg aggttttcac 360

aatctcccat gcttcttttg atgtggttgc atttgacacc aactcc

406

<210> 19217

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19217

agcttggttat ttagttnttg atgcagcaag tgagggaaaa caattcttaa ttgttggtac 60

aaaaaaaaaa gcagcggatt cagtagcacg ggcttgaata agagctcggg gtcattatgt 120

taataaaaag tggctcggcg gtatgttaac gaattggtat actacagaaa cacgacttca 180

aaagttcagg gacttgagaa tgcaacaaaa gacgnggaga ctcaatagtt ttccaaaaag 240

agatgccgct atattgaaga gacatttagc tcatttggaa acatatcttg gcggcattaa 300

atatatgacg gngttacctg atattgtaat aatcgtcgat caacaagaag aatatacggc 360

tcttcgagaa tgtataactn tggaaattcc aacaatttgt ttaat 405

<210> 19218

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19218

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agatcataca atgaagtacc gcacgagtgg gtatatagga atccaaatct gccgaatcac 120

tcattgttatg atcttctaca tcttaggtct tcccgttcc tcatctggct tatgttcttc 180

atgtagcatt cagactgaat gactctatga aattacgtcg ctacttccac atggtacggg 240

taacgtagga gacatctcta tttttcccg gggaatcct tagaattacc acagcttagc 300

tntcaattcg cctctgacca tcaaataaaa tgtgaataac ccgctctccc ctctntgaaa 360

ctntgaaaca aaggggtgctt cgggttctgt cgggtgcttga aacaattnta gtcttctcat 420

attactatat ctcgagagtc acataattta tatgaggaac tactgaactc aatca 475

<210> 19219

<211> 525

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19219

gatgatcgtg caaaatggat agaattaaat gatttaataa aagttggtgc agtgggaagc 60
aaaattttag tgacaacacg gagtgactca attgcttcaa tggtagggcac tgtaccctct 120
tatgttttag aaggtctgtc tgtggagaa+ tgtttgtctc tgtttgttaa atgggcatc 180
aaggaaggtg aagaaaaaaa atacccaaat ctagtggata taggaaaaga aatggtgaaa 240
aaatgccaaag gggttccact agctgttcga actttaggaa gttctctgtt cttgaatttt 300
gatttagaaa gatgggaatt tgtaagagac catgagatct ggaacttaaa ccaaagaaa 360
gatgacattn tacctgccct taagttgagc tatgatcaaa tgccatctta tttgangcag 420
tgttctgctt atttttccct ctttttccaa ggatttggcc acattgggtc tcantttgtg 480
agtctttgcn gatcatttgg attacttga tcntcctctg gaagt 525

<210> 19220

<211> 510

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19220

gaaacttctc agctgcttga tattgagtgg ttagggccac tctagaactg tctgcacctt 60
agtagcatcc atagcaactc cttcacctga aactatatgt cctaagtact ctatctccaa 120
tacaccaaaa gagcatttag acaacttagt aaacaaaaca ttttctttca acactttcaa 180
tacagcctca agatggcata agtggtcatg ccatgtggaa ctatatacca atatatcatc 240
aaaaaacact aacacatatt tccttaaagc atgttggaat atatgggttca tcaaacactg 300
aaaagaagtc ggagcattgg ttaaaccaaa tggcattacc aaccactcat aatggccatg 360
gtgagttcaa aaggctgggt tatgtctatc ctacgttgg actagtatct ggtgatagcc 420
cgaccttata tccagnttag aacaatactt tgcaccaaat agttcatcta acagcttggt 480
catagtaggc acagggaac tatcttttac 510

<210> 19221

<211> 404

<212> DNA

<213> Glycine max

<400> 19221

ttgctcaaca ttcaatgtca agcgtctcga tatattatgg gactcaatca gacatccgag 60
taaaaagtta ttgtcgtttg aatfggctcg gagcttcaac attcaatttc gagggctctcg 120
atarattacc ggactcaarc cgacatccga gaaaaaaatt attgfcgrrt gaattggctc 180
acaggttcaa cattcaattt tgagcgtctc gatatgttac gggactcaat cagacatccc 240
agtaaaaagc tattgtcatt tgaatttgct cacagattca acattcaatt tcgagggctct 300
cgatatatta cgggactcaa tcagacattc gagtaaatag ttattgtcgt ttgaattggc 360
tcacagggtc aacattcaat ttcgagcgtc tcgttatatt accg 404

<210> 19222

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19222

gattgagtcc cgtaacatat cgagacgctc gaaattgaat gttgaagctc tcagccaatt 60
caaacgacaa taacttttta ctcggatgtc tgattgagcc tcgtaatata acgagacgct 120
cgaaattgaa tgttgaagct ctgagccaat tcaaacgaca acaacttttt actgggatgt 180
ctgattgagt ctcgtaatat atcgagaggc tcaaaattga atgttgaagc tctgagacaa 240
ttcaaacgac aatagctttt tactcggatg tctgattgag tctcgtaaca tatcgagacg 300
ctcgaaattg aatgttgaag ctctgagcca attcaaacga caataactnt ttactcggat 360
gtctgattga gtcccgtaac atatcgagac gctcgaaatt gaatgttgaa gctctcagcc 420
aattcanacg acaataactn tntactcgga tgtctgattg agtc 464

<210> 19223

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19223

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aacacctaca canaatggng tagttgaaag gaaaaataga actttgcaag aaatggtagg 120
 accatgcttt gcacaatctc actaactaaa aacttttggg cagcaacaat aaacacaact 180
 tgctatgttc aaaatagaat atggtaagac attgattaaa aagactcctt atgaactgtg 240
 gatggaagat gacctaacat ttcatacttt catccatttg gatgtaagtg ttttatcctt 300
 aatccaagaa atgaactcgc aaagtttggg ttagagggtg ataaagggtat ctccctagga 360
 tattctgaca tatctaaagc tttcagagtg gtttaactc 398

<210> 19224
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19224

gggcagcaat actactaact tgactgtagt gtgcttgtat gtagatgact tgcttgtgac 60
 acgaaataat gagactgaga ttgccaaactn taaaggagag atgataagag agttcgaaat 120
 gactgatttg gaccttattt cttattttct tggaattgaa ttcaagagaa ctaatggggg 180
 agtgatcatg aatcaaggga ggtatgaaag agatgtactg aagaagttca gaatggttga 240
 ctgcaattnt gcagacacac ccactgccac tgggtgtgaac ttggtgaaag atcctaata 300
 agaagaagta gatgtaacat tgtatagaca aatgggtggg tcactgaggt atctntgttg 360
 tactagacct aacttattgt atgttgntgg ctttaattagt agatatatgg agaactttga 420
 ac 422

<210> 19225
 <211> 276
 <212> DNA
 <213> Glycine max
 <400> 19225

agcttcttgt tgtcggtaag atatgcccc tagtcaatag tgcattgggtt actcccttgc 60
 gagtgggtatc acagaaatgg ggtacacaga ttatcactaa tgaccagaat gagttgattc 120
 ccacaataac tatgaccgga tgaagaatgc gcattgatta tcgtaagcta attaaagcta 180
 cacaacata tcattcttct cttactttca tggataaaat gttggaacgc cttatgggat 240
 aagcctatta tacttttctt gatggttatt cccgat 276

<210> 19226
 <211> 209
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19226

agctttagt cgattactta catactgtaa tggattacca gaggagtttt tcagaaaaca 60
 ttctcaacag tcacatcttt ctgtgtgggt cttgaatggc tatcataggc ctatatatac 120
 gtgacttgag acacgaatnt gacaagagtt ttgaacgaaa aaagtctcat cctcctaaaa 180
 agcaaaattg ctttatcttc ttacaaatt 209

<210> 19227
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 19227

tatctaacat taaggtttat ttaatttggt tgacaattta tgtaataact ctatagacta 60
 tagagtgttt gattaccgaa ccttaactac tactgaaaat tatattacaa caacctaaat 120
 ttgtaaacat tatcttggtt attttttatg aggacacatg ttttttatac ggaagaaaat 180
 attgtgagtt acataaaaaa ttattattat aagagataaa agtttctctt tgaatattta 240
 gcatataaat gtacactcaa agctcaaatt tggaatcaca tatgaattta gactagtcac 300
 gagtaaatta atttatacat tccatgttaa aacaaattat catcataata tgaattattt 360
 aatttcatat tataaatata ttaaatacta ttgcacgact tacccttgaa ctaattttta 420
 cagattaacc g 431

<210> 19228
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 19228

tatgctgcag acatttatta tagttctact caacagctat gcgcgcaact tcagagtaat 60
 tatgaccttt caagcaatag atacaatcca tgttgaggga atcatccaaa tctgagatgg 120

acaagtcctg cacaacaaca tcagcatgtc cctcctttcc agaatgttgg aggtccaatc 180
aagccatatg ttctctctcc aatacagcaa cagtgacaac aaagacaaca tgcaactgaa 240
gctcctactt aacctttctt agaagagtta gtgaggaaaa tgaccattca aaatatgcaa 300
tttcagcaat agacaacagc ctccattcat agcttgacaa atcagatgga gcagatggct 360
acttagatga accaagctca gtcccaaaat tctgacaaat tgccttcata aactg 415

<210> 19229
<211> 142
<212> DNA
<213> Glycine max

<400> 19229

acaagcactg ccgcagtggc acaagacagt taatgagttt atgagcgact cacgattcac 60
aagatgtgac atggaccatt gctgctatgt taaaaaatat actaatagtt atgttatccc 120
ttgtgcgtat gctgatgaca tg 142

<210> 19230
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19230

cttcggttgt tcaatttcta gcgtctcgat atattatttt ttcgaatctt acatccgagt 60
gaaatgttat gaccattcga atttgtcgag agcttctggt gttgaatttc gagcgtctag 120
atgagttatg tcaccgaatc ggacatctgt gtgaagagtt atgaccattc gaatttctcg 180
acatcttccg ttgttcaatt tcaagcgtct cgatatatta tgtccccgaa tctgtcttct 240
ttgtgaaaag tttggaccat tcgaatttct ggacagcttc cgttgttcaa tttcnagggt 300
ctcgatatat tatgtccccg aatcggacat ttgtgtgaaa agttatgacc attgaaattt 360
cttgagagct tccgttggtc aatttcaagc gtctcgatat attatgtccc ctaatcagac 420
atccgagtga aatgttatga 440

<210> 19231
<211> 240
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19231

tctgcttaag gtacttgtgg ctggtgcgag gcattggtgg ctcggtgctt gctctggctg 60
caaagaggaa agggtttgag gcggtagctt tgagaacgat atgagtgcta taagagggga 120
agggcactat acgggtcccc ttacacatata aadcactgct tcggctgatt tggaaactat 180
agatttggac gctgctycaa acctatgaca gctggctgta tcacggatga tangatcaat 240

<210> 19232
<211> 246
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19232

agcttatgat attgtcttgg aaactataaa aataaattat ttgaatcaaa gatacattat 60
tttcatgcct atcaaattgtg ttaaattttta aaattaataa atcattattg atataacttt 120
catgataatt attataaaaa tcacgaaact tattataaat acataattac tataattaaa 180
tacaaatata aaatacttca cactatcaat atataatcta tttaatcaaa tcanaatcaa 240
tatata 246

<210> 19233
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19233

tctattctga atttcaagcg tctcgatata ctatggttca caatcgaaca tccgagtaaa 60
aagttattat cgttagaata tgctcagagc ttctgttttc agtttcgagc gtctcgatat 120
attacaggac tcaatcggac atccgaatta aaaattattg tcgtttgatt ttgctcatag 180
cgtctgcttt taatttcagg catgtcgata tactgcaaga cacaatcgga gatccgagaa 240
aaaatttaat gttgtttgaa ttttctcaaa gcttccattt tcaatttcga gtgtctcgat 300
atattacagg acttcatcgg acgtccgtgt taaaagttat tgtcatttga atntgctacg 360
agcttctgtt ttcaatttcg agcgtcttga tatattacgg gactcaatca gacatccgag 420

taaaatgtta ttg

433

<210> 19234
<211> 249
<212> DNA
<213> Glycine max

<400> 19234

agctttgagc aaattcaaac gacaataact tattactcgg atgtctgatt cagtcccgtg 60
atatatcgag acgctcgaaa tggaattttg aagctctgag caaattcaaa cgacaatcac 120
tttttactca gatgtctgat tgagtaccgt aatatgtcga gacgctcaaa attgaatact 180
gaagctctga gcaaattcaa acgacaataa cttgtcactc agatgtctga ctgagtcccg 240
taatatatc 249

<210> 19235
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19235

agcttaccat tataggaggc catggataag agcttggagg aagaacgaga tgaatgaagg 60
gagagggaga gaatagcaca aaattttgtg ctctaaatga gctttgaaat ctgaagttta 120
atattcaaat ggtcaaagtt aaaaaaatg cacacacatg acctctattt atagcctaag 180
tgtcacacaa aattggagag aaattcgaat ttcaattcaa atttcacttg aatttgaaat 240
tgaatttgtg gagacaaaact tcggagccaa aatttcacta attatgatta gtgaattnta 300
gttatggttc agcccactaa tccaagatca atctcaagat tctccattaa gcgtgcttan 360
gtgtcatgac gcatgtaaaag catgaacgac atg 393

<210> 19236
<211> 427
<212> DNA
<213> Glycine max

<400> 19236

tgtcacaagt atatttaacc tgaacctctt agaagcttgg caaacatacc agccagctga 60
ttgctggagt taacaatggt ggttgtaatt tcgctggaaa gcaccttttc tctaacaaag 120

tgacagttga tctttctatg cctttgatct tttcatgtgt ttgtctcca attttagttg 180
 ttggagtagt tgcctaagtt ccataagctc acatgtgact attgccatag aacaaaatcc 240
 aacttttgca ctggatctag taattatggt ttccttattg ctcttccatg atattaggtt 300
 tctccagca agaacacagt atccttaagt ggatcttctg tctaagggtg acctttccca 360
 gtcacatca gaggtaataa tgccttcttc atttcccttc tctcatata ataactcttc 420
 acctagt 427

<210> 19237
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19237

atccaccatc cttagcgttac aatattttatt aatcatataa tngnaagcat aagcattagg 60
 cacaattcca cttggcttca tattctcata catttaaaac ctttcccttt gaaggccttg 120
 cttgaaaaag ccgctcatta acacaccaca actatggttg ttggcaacca aaccaacct 180
 atccatcgtg caaaacaact tctttgccag cctaacatct gcaactcttg aacaccata 240
 aatcaacgta gtgtatataa caacattcag agagaaacca aactcttnca acatggccaa 300
 aagccgaaac cttttcatca agtcaccagc ttcacaacga cccttgatca taatcccaaa 360
 actgtaggca tccataaaa ctttacgctt gaattcatta tatacccacc aagctatata 420
 gaaacaattt 430

<210> 19238
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19238

ataactcacg ttgccttgcc ccttgatata tttgaggggt tcatggtttc tatgaatgac 60
 atattccttg ggataaaggt agtggttgcca tgtattcaaa gcccgacta aggcatacaa 120
 ctgcttatca taagttgaat agttaagggt gggaccactt aacttttcac taaaataagc 180
 aattggatgg ctttcttgca tcaacacagc cccaatccca acatttgaag catcacactc 240

aatttcaaaa gatttttgaa agattggcaa cgcaagtatg ggggcattac ttagcttttg 300
 cttagaaca ttgaaagctt cttattgttt gtctcgccat atgagaccaa cattcttggt 360
 gagcacttca ttgagaggtg cgtgcaatgt gctgaaatcc ttcaaggatc ggctataana 420
 acttg 425

<210> 19239
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 19239

ctctttatca cgatttgctt acatgcaagc taggaaatca acaccttcat ctactctctt 60
 catcattcct cttcatttta tttctgagat acaagcttta ggtaaggggg ctctttcatg 120
 tggatcatggc aatagacaat ggaatcctca aatgtcacct tatatatctg cacagtgtaa 180
 gggcattcat attacaaatc ttattacaac tgctccggaa aacatgggtc gtctggggag 240
 ctcacccatg tattctgcat atctttctca atttactgct gaaaatacaa tttcatgttg 300
 aattggatga ac 312

<210> 19240
 <211> 271
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19240

agctttcttct tatagtccac ctttgcttga ccttctttat gcttaaaaat agaaacatta 60
 cgcaaaagat caagaggagt tagtgggtta aaaccataaa caacttcaaa aggagaacaa 120
 ttagtgggtgc tatgaacaac tctattgtaa gcaaattcaa catggggtaa acaagctctc 180
 caagttttta agttattcct canaactgtc ctaagcacag ttcccaaagt cctattaaca 240
 accttccggt gcccatcggt ttgtgggtga c 271

<210> 19241
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 19241

tgcttctaca ttctctcttg aagagaagga tattactttt gaagtccata gagaaactct 60
taatggattt gcaagtgttt gcccaagagt ttcttttgag agagcatttg gcaatgaatt 120
tctctggaat atctctctca tttctttttg agaggataat acattttgaa caagcaaaac 180
tctctcttca aaattctgtg ccaagttacc tattctgtagg cctctgtagg ccaattcaca 240
attcaatcaa aagatatgac tgttggcaga ttttctgaaa actctccatt ggtaatcgat 300
tacacagtta taatttgaag ggttatgaat tttgaatttg aatttccaaa gttcctttgc 360
tggtaatcga ttacaaacat atggtaatca attacatgtt caaaattcaa aattgaaaac 420
ccttttc 427

<210> 19242

<211> 251

<212> DNA

<213> Glycine max

<400> 19242

agcttgttta caaaaacctt tttggtttcg attagcttat gagaagaaag tttagggact 60
aatcccata cttcattcct tttaaactga ttttaattctt catgcaaagc caacaaccaa 120
tgctcatcat gtagtgcttc acatcttcat cttccacagc attttcttga acaagagagt 180
tagttccatc acaaacaaca tgtaaatatt cttccacaca taatgttctt ctattaaaca 240
ctctatatgc c 251

<210> 19243

<211> 347

<212> DNA

<213> Glycine max

<400> 19243

agcttaatac ccaaaatgac atctatagga ccaaggtcct ttatatcaaa attactagac 60
aagaaagact tcacatcatt tatgaaatgt atattactat caaatatcat tatgtcatct 120
gcatacaaac ataaaatgac acatccaata tcatcaaatt gtttcacata cacacattta 180
caactattat tgatttgaaa accatatgaa agaacaactt gatcaaactt ttcatgtcat 240
tgctttggag cttgtttcac accacataaa aatttacaaa gtttgtaaac tctcttttct 300

ttacccgatt ctacaaaacc ttacgtagc tcatactaaa ttcttct

347

<210> 19244

<211> 303

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19244

agcttcgcac atgataatgg agacacatga acagcgctag gcaatgacat tcatgggtgct 60

ccgaacaaag gcggagtatg gaggattggc ttgaggggtcc acacttaggc aattatgaaa 120

ctcagctcca aactcgaaag tggaggacac acgaacaacc ctaagcaaga acattcatgt 180

ggctccgaac aaggacgaga atggaggatt gccttgaggg tcctctctta tgcaatcatg 240

aaacacagct ncatactcaa aagtggagga cacacgaaca gccctaagca agaacattca 300

tgt 303

<210> 19245

<211> 437

<212> DNA

<213> Glycine max

<400> 19245

tatgctgcaa acatttataa tagaccctct cagtagctta accaacatca gtagaataat 60

tatgatcttt caagcaacag atacaatcca ggttggagga atcatccaaa tctgagatgg 120

acaagtcttc cataacaata acagcatgtc cctcccttcc agaatgctgc tggtcctagc 180

aagccatatg ttctctctcc aatgcagcaa caacaaagac aacaagcaac tgaggcccct 240

ccttaacctt ccttagaaga gttagtgagg caaatgtcca tccagaatat gaaatttcag 300

caacagacaa gagcctccat tcagagtctg acaaactcaga tggggcagat ggctactcag 360

ttaaaccaag cttagtccca aaattctgac aaactgcctt cacaaactat gcagaatctg 420

aaaaatgtga gtgtcat 437

<210> 19246

<211> 334

<212> DNA

<213> Glycine max

<400> 19246

agcttgaata tttacaatat cttgctcgct gtctcaacga atgctcctgt tctctccacg 60
gaagcaacta taacgtggca atgggtataaa ttgcttaagg gagaaaatct tattggaaaa 120
catttcaacc atcctccgga tgatccatat ggttcttggg atggaaactt tacggtgccc 180
cttgaaaarc cattcccagc caaaactaaa ccagattcct taaaaatgag ttclaaaggc 240
tcctctgatg atgacattgc tgggtctgag gatgagagtc cgacaagtca cgacagatac 300
acaacttcaa tgaatcgctc tgctggaaat gatc 334

<210> 19247
<211> 427
<212> DNA
<213> Glycine max

<400> 19247

tctgatcacc tggagcacct ccaaategca ttacatactc ttgcttaca tagtttcgtt 60
ttaaaactgt ctaaagtctc attcgcgacc cagcaggtgg attacttggg tcctctgggc 120
tctgtgaagg gagtagaacg agtaccggaa aaggatcatag ctgtgcaaca atggccgact 180
cccaattcca ctctgcctt aaggggattc ttaggcttat ccggattcta tcggcgtttc 240
attaggggat acgccaccct cgcggctccc ctacagctc tcttgccaa ggacaaattc 300
aattggaacc ctgaggctga tctgccttt catcttctca aagatgctct gtgtcaagct 360
cccgtgctgc gattacctga ctttaattcc gaatttgtga ttgagactga tgccctcgga 420
attggta 427

<210> 19248
<211> 223
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19248

agcttttata attagtttac ttctgagttg tgtaaacttg gctttcttca atggttttgt 60
cggtaaatca gcaagattat cttctgattt gcagtagatg agcttgattt ttnctttgtc 120
aactttgtcc gtgataaaat gataacctag atcaatgtgc ttgttgctcc catgatctac 180
agggttctta gcacgactga ttgctgactt attatcaatc agt 223

<210> 19249
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 19249

agcttaagag aragttagat caaagaacac tagagaaaac aatttqtgac acctagtgtg 60
 gcgtgtcacc ctgcggagtg tcggtgttgt tagtcaagaa gaaggatgag accataaagg 120
 tatgtgtaga ctatcgtcag ctaaacaagg tggcgattaa caataggcac cctctgccta 180
 gtatagatga cctgatggac tacttag 207

<210> 19250
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19250

tcagctntgt cccaaggct tcatgtagac tcgtccttaa tcgcaagtg aacctcggat 60
 ccctgtcaga tacaatacta gaaggaattt catgcaacct tactacttcc ttgatgtaca 120
 actccacgag tctctccatt ctatacttca tattcactgg gataaaatga gcagatttgg 180
 tgagtcgatc tactatgacc cacacagcat catgtccacg actagtcttg ggtaaaactag 240
 atacaaaatc catagatatg ctctcccatt tccattccgg aatctccaat ggcttcaatt 300
 ctcccgatgg tcgttggtgc tcaaccttag ccttttgaca ggtcaaacat cttgctacat 360
 attcggctac atctttcttc atgccatgcc accaaaaact tctcttcaaa tcttggtaca 420

<210> 19251
 <211> 322
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19251

taagctttcc aacgggcatc gtttcatgtt agtgaccgtt gattacttca ccaagtggga 60
 ggaagcagct tcatatgcta gcgtgactag gaatgtggtg atcagattca ttaagaagga 120
 gataatctgc agatatgggt tgcccaagaa gatcatcact gataatgcca ccaatttaaa 180

caacattatg atgaaggaaa tgtgtgagga ttctaaaatc caacaccata atttcacgcc 240
 ttattagcca aagatgaatg gngcagttga ggctaccaat aaaaacatca agagaatcat 300
 ccagacgatg actatgtcat ac 322

<210> 19252
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 19252

tgtcacaagt atattttaacc tgaacctctt agaagcttgg caaacatacc agccagctga 60
 ttgctggagt taacaatggt ggttgtaatt tcgctggaaa gcaccttttc tctaacaaag 120
 tgacagttga tctttctatg cctttgatct ttctatgtgt ttgtctccca attttagttg 180
 ttggagtagt tgcctaagtt ccataagctc acatgtgact attgccatag aacaaaatcc 240
 aacttttgca ctggatctag taattatggt ttctttattg ctcttccatg atattaggtt 300
 tcctccagca agaacacagt atccttaagt ggatcttctg tctaagggtg acctttccca 360
 gtcaacatca gagtaatgaa tgatcttttc attgcctttg tcctcatgta ataatccttt 420
 acctagt 427

<210> 19253
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19253

tgtaggcctt ggatcttctt catcaaagga gtcctttgct tcttgaatat caatggccgc 60
 ggaatggaca agaagaggag ttgagaggag atgccactcc aaggacaaga tgagtcaaga 120
 ataatctcac caccatggac tctattttatc gcccaagtgt cacacaaaat cggagggaaa 180
 tctgaatctc tattcaaatt tcacttgaat ttcaaattga atttntggag ccaaaatttc 240
 actaattatg attagtgaat gttagctatg gttcagccca ctaatccaag atcaagccta 300
 cactctcca ctaatatgct tacgtgtcat gaggcattga aagcatgatt gatgtgcaca 360
 aagtgtgact atatgatgtg gcaatggcgt gtagcatgca catgctcacc 410

<210> 19254
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19254

tctgggtgtga catcttgaat tggcttccaa tctgacatt accacagatt atgcttctt 60
 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgctc 120
 ttaagagcag atgtccaaat ctttgatgcc atattttgac ttcattctct ttggaggata 180
 gacatgtgga ggagtaactg gtttcttgag gtgtccatac gtaacacttg tcttttgatc 240
 tgctgccctt cattagaact tcaactctct cattcgtcan caagcccctg actttgtgaa 300
 gttacattga atccttcatc acacaactga ctgatgctga tc 342

<210> 19255
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19255

gcctcagcaa attccttatt tccagaaggg aattctatca atagacctcc aatctttaat 60
 ggagagggtt accactactg gaaaaccoga atgcaaattt ttattgaggc aatagatcta 120
 aatatttggg aagccataga aatagggcct tatataccca ccacagtaga aagagttaca 180
 atagatggta gttcatcaag tgaaagcata actatagaaa aacctacaga tagatggtct 240
 gaagaggata gaaaacgagt acaatacaac ttanaagcca aaacctaata acatctgccc 300
 tggaatggat gaatatttca nggtttcaaa ttgtaagagt gctaacgaaa tgtgggacac 360
 tcttcgatta acacatgaag gaactacaaa tgttacatga tctcngataa atacactaac 420
 tcatgagtat gaattattta gaatgaat 448

<210> 19256
 <211> 466
 <212> DNA
 <213> Glycine max

<400> 19256

tggaggaaga aagagatgaa tgaagggaga ggaagagaag atatcgattt tctgtgctct 60

aaatgagcta tgaaatctga agtttaatat tcaaagatc aaagttgata aaaatgcaca 120
 cacaatgcct ctatttatag cctaagtgtc acacaaaatt ggagagaaat tagaatttct 180
 attgaaaact cacttgaatt tgtggagcca aactctggag ccaaaatttc totaattatg 240
 attaglgaaat tatagctatg gctcagccca cttaaattcaa gatcaagtc aagattccca 300
 ctaactatgc ttaotggcat aaagcatota aacatgaag cacatgcaca taototaaat 360
 atatgatgtg gcaatgcggt gtagcaagca aatgcttacc ttccaattca attaaatcta 420
 tttttcaaca cacacatcat atattcactt aatgcatgtg aaatta 466

<210> 19257
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19257

tganagtgtg taaccaacca ttntctcatt gtagaacacc ggtaacgtgt atactatcat 60
 tgtgatcatc tttttctctg tcattgaagg tgccacttga gctgtcaagt cctccacct 120
 ctgggcgtat tccttgaatg actcatgtc ttttttacac atgttttgta gttgcgttct 180
 atccggagcc gtatcataat tgtactgata ttgcctaacg aaggcaacca ttaagtcctt 240
 ccaagaatag actcggaag gtcceaagtt agtgtcatac cctaattttg ctgcgatta 300
 ttacttgca catgcaacct ttgattgccc gtttcaagat acttgccac ctttggtgca 360
 caatatgtaa gtcttgagac gcaccggaag tcacaaggag cagggttatg 410

<210> 19258
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19258

agcttggcac tgattntgta ggtataacat cattattcat gttcttaatt tgcattgtaa 60
 atatggagaa aaatgtgttt ttagtcttta ttttttggt aaaatataat taagggttct 120
 gtacctttat attgataaat ttaattttcc caactctaaa cggcgtgtat ttaatctctt 180
 ttattttctaa gatttcatta ttttttttaa agctattata tccataaatt gttaatccca 240

tcgatactaa tttcgatcta cttatacaaa atctcgattt aagctgcgaa agaaaaaaat 300
 aacatgtaat cgagagacaa gattctctag aagcgattag tcacttatac aaagatcaat 360
 atcagcaaaa ttagtgaata tttcatataa atactatgct aaaat 405

<210> 19259
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19259

ngagcatatg gatggccttt ggctaaatca gcagcatgag ccgtaatctt gtaagctata 60
 acgccagcct tcacgtgatc ccggtttggc aaccaagat gttcttttgg agtcacataa 120
 cacagaagag ctgtacctag tgccccaata ttcgcgacac caattgcaga cgcgatgtga 180
 tcatagccag gggcaatatc agtattctaa tgaccaagag tgtaaaaagg cgcttcacta 240
 caccattcta actgtttctg catgttttca cgaatcttgt gcattgggac atgccccgcg 300
 cttcatctca tacctgtaaa gtaacttaaa gtaaaaaata taccatca tcttcaagat 360
 atattgatgg taatatcgcc tcacatgatg a 391

<210> 19260
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19260

tgtacgcctt ggatcttctt catcaaagga gtcctttgct tcttgaatat caatggcagc 60
 ggaatggaga agaagaggag ttgagaggag acgccacttc aacgagaaga tgagtcaaga 120
 agaagctcac caccatggcc tctatatata gctaagtgt cacacaaaat tggagggaaa 180
 tttgaatttc tattcaaatt tcacttgaat ttgaaattga atttgtggag ccaaatttc 240
 actaattatg actagtgaat tctagctatg gttcagccca ctaatnnaag atccccctcc 300
 agattctcca taagtgtgct taagtgtcat gaggcattga aagcatgaac gatgtgcaca 360
 cagtgtgact atatgatgcg gcaatggtgt gtatcatgca catgcttcac ctcccctcta 420
 caatttaatt gga 433

<210> 19261
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19261

taacgcattn tacctctaag ggtcttgtaa ttgcataatg gtggtcagtc tctcgatggt 60
 cccaccatgg tatagcttca atctctgacc atttactatc catgttctgt gcggagtttc 120
 tgactgaggg tcaagtaatt ccacaactcc atatggcttg acttccttca tggatgaatgg 180
 tccagactat ttagacttta atttgcttgg aaacaacttt aatcttgagt tgaacagcag 240
 cacttggtgt cctggcctan agtccttctt tagcagcttc ttgtcatgat aagccttcgt 300
 tttcttttgt acagctgaaa gactcataag cattcaatct catctcttcc agctccaaga 360
 gttgcaactt cctcttttcc cctaatagag cctcatcaaa attcaggaat ttcanagccc 420
 agtatgcctt atgttccatt tctac 445

<210> 19262
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 19262

agcttaaaca ttcactttcg agcctcactt caacattcaa tttcgagcgt ctcgatatat 60
 gacgggactc aatcagacat ccgagtaaaa agttattgtc gcttgaaatg gctcagagct 120
 tcaacattca atttcgagcg tcccgatcgc tcacggcact caatcagaca tccgagttaa 180
 aagttattgt catttgaatt ggctcagagc ttcaacattc aatttcgagg gtctcgatat 240
 attacgggac tcaatcagac atccgagaaa aacgttattg ccgtttgaat tggctcagag 300
 gttcaacatt caatctcgag cgtctcgata tattacggga ctcaatcaga catccgagaa 360
 ataaattat 369

<210> 19263
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19263

tccatcagga tgtcttattg agtcccgtaa tatatcgaga cgctcgatat tgaatgttga 60
acctctgagc attttcaaac gacaataacg ttttactcgg atgtctgatt gagtcccgta 120
atatagcgag acgctcaaaa ttgaatgltg aacctctaag ccaattaaaa cgacaataac 180
tttttaatcg gatgtcrgar toagttccgt aataratcca gacctcnaa attgaarct+ 240
gaagctctaa gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgagtcgcy 300
cactataacg agacctcgaa atgaatgtta acctctgacc aattaaacga cataactatt 360
tactcggatg ctgattgagt cccgaatata tcaaccctcg aattaatgtg 410

<210> 19264
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19264

agcttgcaca caagattctc cttgcctggc acctcaaaac cttcaggttg ggtcatattg 60
atgtcttcct ctaaattccc atgcaagaat gcagttttta catctaacta ctccaagtga 120
agattctctg cagctacaat actcacataa ctctgatggg agtcatcttt acaactggag 180
agaagatttc tgtgaaatca attccttggt tctgctgaaa ctttttcacc acaagtctct 240
ccttgatatc tcttctatcg tcggattntt ccttttagcct atagactcac ctattctgta 300
acgctttctt tccttctang aaattagtta aagaccacgt cttattcttt tgaaggggtg 360
tcattctatc tttcatcgct agtcccaact caatagt 397

<210> 19265
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19265

tactgattga gaagattgaa accacaataa tgacatgtcc atgctacgca tgccatcaaa 60
aggaggctta tgggtggaag agaacaataa tgatttatcg gccattcatg ctctccatcg 120
tgaccataac agacgtatgt atctatgtag cattgctctt tacagactca cctacagttt 180

actatgtctt tcaaccata aattgogaat cattacagca tggcgcaatg tcatttttgta 240
tattaattag tttctactag aagctaccac cttttgttaa tatattattn taaacctcat 300
acagtcttaa tttctcatta tggactaaag tacatgcata cagaattaac atagcatcga 360
cttaagcatt tcatt 375

<210> 19266
<211> 347
<212> DNA
<213> Glycine max

<400> 19266

ttgcataccc caaggatcca tcagtatatt acttgtgaaa tatagccacg agggcgggct 60
cataggccac tttgggatac ataagacct tgtcatactc agagacaagt tttattggcc 120
ccgtgtgaag aatgatatcc ataagctttg cactatgtgc gtggcttgtc tacaagccaa 180
gtctacggtg atgcctcatg ggctatacac acccttacct atcccatctg caccttgagt 240
aaacattagc atggacttct gccttgggct atctagaacc caaagagccc gcactctctc 300
tttggcgggt ggataggttt atcaagatgg ctcactttat accatgc 347

<210> 19267
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19267

ntggatgcaa atcagtttgg aaaactgagg ggcaagctgg gcatttgtct gctagaggaa 60
ttatagcagc tactgcaatc tgaacgtgcc caaacgaatc acttaacatt aatagcacgt 120
tcaccacaaa gaaaattcga ccgttgctc acacgccct ctacattctt cattcaaatt 180
tatatctgct tggcattcgt gtttttacca gcatttccca atagccttct gagatttacg 240
aatcattcc aaacgtctg cttttccatg gctacctcac caaaagaact tccgctcctg 300
gtcaccgct gtaccatcat ctccgcacca ggaacaacca gaattcaaca tccaacctat 360
acaaataatt cctgggcaag cttctgtccc tgagaaactg gttccagaag acaac 415

<210> 19268

<211> 300
 <212> DNA
 <213> Glycine max

<400> 19268

agctttgtta tctactgaag gctctcgaag agtcagatga gggagatagc gttacggtta 60
 .cagaggagtg gacaaagggt cttgtgggtt atgaggaacc catatgagag aagcgaattg 120
 attttggagg aattgtttgcc ataagggccc ctgcaccgac ctacagagag gggaatggtg 180
 atgaagaatt gcgcgccaca agttaagatt ctgagtcatt actcgggtgg tgggttcgtg 240
 actcactgcg ggtggaactc ggtgttggaa gcggtctctt ggggtgtgcc tatggcgctg 300

<210> 19269
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19269

agcttattgt gtgttgatga ttataacaca tatatatgta tatgaattgt taaaataaat 60
 tatgaattaa tagttcaaat aataaaatta aattgaagga aattaatata ttaagattca 120
 acgataaata ctttcaatgc attctagcct acttatttat taactttttt taattgataa 180
 taatatagtt tggtttaata tatacatggt tagtatgtaa atactaatat ggtgtgacgt 240
 gcatatgatt catgaggcgg gataacatgc tgctttggga ttataacatt gtcgatnaca 300
 ctgagtgtat gtgataaatt gagtatgtgt cgaattataa gatacaagcg tattgagatt 360
 ttgtatgcat cgagctgtga gctatgaact atactattac ac 402

<210> 19270
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19270

agcatctact aagtctctt cactatctct atcgagccac aaccagcttc tgcaggtgtt 60
 tcagcactgt tacagtgttg catattgaat ctatgcagaa tatcagtagc atatttttgc 120
 tgtgtgagaa caattccttc actacacctt tgaatttaac tccagggaat tatgacaact 180

cacccaggtc agtcatgtca aactcatcca tcagattttt cttaaattca ttcacttttg 240
 cttcattgtt tcctgtcaat aacagatcat caacataaag gcatagcatc ataatgtctt 300
 cccccccaga cttcacatac actccatgct tagacctaca tttcacanaa cccaaattgg 360
 tcaagctctt atctattttc atgttccaag cacgt 395

<210> 19271
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 19271

agcttaatct ttggcgtcat ttagctcggg taaagtccaa ggcttcagag atatttgaca 60
 ttatccttaa gatgaacaaa gatgaagctt aagctttggc ttcactccaa ttatataata 120
 tgcttcaaact actcaccatt gactggatcc cccccgcgtg atccacaaca atcaaatttg 180
 gatactgata aagcacagat gcaagagcac tgtccctgtc tgaaggacca tgcacatgaa 240
 actccttttc accaatctga aaagtcttgg ctgacttctc ttcacaccca aacgacacag 300
 gaacaacatt cagttcagca gctttcgccg cattaatcac ggtctctccc att 353

<210> 19272
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 19272

agctttgagc aacttcaaac aacaacaact ttttactcgg atgtctgatt gagacccgta 60
 atatatccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120
 tttttactcg tatgtttgat tgagcctgta atatatcgaa acgctcgaaa ttgaagaccg 180
 aagctctgag caaattcaaa cgacaataac tttttactcg gatgtctgat tgagtcccgt 240
 agtatatcga gacgctcgga cttgaatgcc gaagctctga gcaaattcaa acgacaataa 300
 cttttttcct cggatgtctg attgagtccc gtaatatatc gagacgctcg gacttgaatg 360
 ccttagctct gagcaaattc aatgacaat aactttttac tcgg 404

<210> 19273
 <211> 410
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19273

agcttctata tattaatgaa taaaattatc gatgcatgtg ccatgttatt tttgcectct 60
cacacgcagt tctgaacctc cttaggggtt tgactaatgt ccactttgtt cttcttttca 120
aatlctata caaaatgggt caccattccc ttccaagtc atgltccact taagltagtg 180
tttccagcaa tagccttata ttggaatagc ttatccttga tegttagaag tacaactgcc 240
aagggtgaaac atgaaaatgt tttgctctcc aacgcaatta gtcttgttgt caaggccatg 300
tggtcagcaa ctactgaata taaagcagcc tcaatagcag cggcttctct taactctctt 360
tcaaccatct ttatcttgtt ntccaagtag tcaatcttgt tgtctaaaat 410

<210> 19274

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19274

agcttgatct ttagttnntt tatctctaata ctttaatccc tgaacgaact attcaagttt 60
gtaattcgaa ctttaattat cttttaattc gttcctaaag atagatcgcc aaatctgttg 120
ctaactgcac attaactctgt taaagactca cagattcatg tgtccagtat tttcgggcaa 180
gatgtcctgg acatcgtatg cgacattcgt ggatcctgca gtttcaattc ttcatttgac 240
attttatctt gccttgtgca ttgtgcaagc caatctgact ccttgacata acgtggacat 300
catgtgcagc aacttcagct ttccttcaat gtctaagtgc ttat 344

<210> 19275

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19275

tcagatntca gagctcttca gagcacaaaa ttcatgctct tctcttctc tcccttcatt 60
catctccttc ttactccaag ctcttatcca tggcctccta tggcggcgag cttnttctag 120
actcatcttc tcttgaagt ggtgtctcct ctctcttttc cttctccatt ccgccggcat 180

tcacatctcca agaagaaaag gaatccattg atgaagaaga tectacgcct acaagctcca 240
atggagctta caccatgtgg tatcaagagc atctccatct aggggatggt ccttcgctcc 300
ctctatcttc tgtccggaga aatctctnta attacttggg cttcatctta ttctccatgt 360
atatccctcca ttatcttgtg agatggcgct gtctagagt 399

<210> 19276
<211> 409
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19276

tgaatgttaa tagtgcattg gagaagagag cgcgataggg tacacggaga agaagagagc 60
ggagcacaat aggtcgcac c aaatataatt taaaatgtac gctcaacatc ggttttcaat 120
aaaaaactga tgtaacaaa ttgatgagaa cgtaacatc ggttttattc aacaaaccga 180
tgtaagggt gcttccttaa catcgatttt ttgaaaactg atattaacgt cgcttcgttc 240
acatcagttc tcttcaaac cgatgttaag gaatacacat tatttanaat taccacccc 300
atttacgtaa catgcggtnt gtgaaaaacc gatgttaatc cgccgatggt aaatctggtt 360
cttctagtag tgaaccatac catcaatatt tcagttgatt gataaaata 409

<210> 19277
<211> 282
<212> DNA
<213> Glycine max
<400> 19277

tgtttctaca gttttgtacg atatatcagc caattgactc tgtgtgtcat taaactctaa 60
tatgcactcg ccccttttgaa catggccttg atggatccga cgccttattc aatatgcttt 120
gctctagagc gccgaatata atttttggat agattgatcc ccttcatatt gccacaacgg 180
atacgcatat gtacaagctc tcagccatta tcagagagtt gctgtctcat ccaaagatc 240
tgtgcacata aacttccagc ataaatatat tccgcttctg ca 282

<210> 19278
<211> 458
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19278

tcaagagacc gcttcaactt caagaagatc ttggaatgtg gcatattcaa agagtcattg 60
ttactccaaa agtctaggtc aaggtgaatt aaggagagag attgcaacac aaaacttttt 120
cattcaatca atgagttcca taggcattga gtccttccaa gaggtactaa cttatctttt 180
ttagatcaac tgccaatgtg ataatacaca aagtttagat catttttagac ctatttcttt 240
ggttggatgt ttgtataaag ttttggcaaa gatttttagct aatagaatga aaaatgtact 300
tgataagggtg attgatccta gctaaagtgc tttcctagag gggagagaag ttctacataa 360
ttcgggtggtg gccaatgagg ttgaggatga agtaaaaagg ggaaaaaagt catgtttgtt 420
gctcaatgtn gcatttgaga aggccttcaa cttgatgt 458

<210> 19279

<211> 391

<212> DNA

<213> Glycine max

<400> 19279

tgccgccacg gagttttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
agcaagacat gaagagccaa tggttgatac atggacagag atgaaaaaga tcatgaggaa 120
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180
aggcgcacgg gggcgaggag tatttcaagg aaatggatgt gctcatgatt caagcaaata 240
ttgaagaaga tgaggaggtg actatggctc gattttctta tggtttgact aatgatatcc 300
gtgatattgt tgagctgcag gagtttggtg aaatggatga tttgcttccc atagcaatcc 360
aagtggagca acaattaaca aggaaggag t 391

<210> 19280

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19280

ggcctaatta acctgaaatt gagaganaat gattattaaa cacacaaaat ggaagtacta 60

agtattttatt atctatactt aacaaaaaaaa tactttataac actacaaaat aaccataaat 120
 tggaagagtt tgatacaatt tacataagtt ttatacacaa aagttattca tattttaccga 180
 cgatcttctt acattcttat tagcagcctc aactgccccca ttcattcttg gccgataaga 240
 cgtggaatta tgggtgttga ttttgaaatc ctcacacact ttcttcatca tattgttgtt 300
 taaatrggtg gcattatcag tgatgatctt ttgtggcaaa gcataatctg aaattatttc 360
 cttcttaatg aacctaatca ccacattcca agtcacacta gcataatgaag ctgcttccac 420
 ccatttgctg aagtaatcaa tgggtgactaa atgt 454

<210> 19281
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19281

tctggtggga catcttgact tgctctccaa tctgaactc accacaaatt ctgccttctt 60
 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggacg 180
 cacatgtggc gagtaactgg tttcttgagg tgtccatagg tagcagttgt cctttgatct 240
 gctcgccttc attagaactt cactcttctc atttgtcacc aagcattctg actttgtgaa 300
 gnttacattg aatccttcat cacacagctg actgatgctg atcaagttcg cagtcagtcc 360
 cttcaccagc agtactttgt ccagactagg aagtccatca tggact 406

<210> 19282
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19282

tatgctgcan atattttacaa tagacctcct caacctcagc agcaaaatca accacaacag 60
 aacaattatg acctctccag caacagatac aacctggat ggaggaatca ccctaattctt 120
 agatggtcca gccctcagca acaacaacaa cagtctgctc cttccttaca aaatgttgct 180
 agcgcaagca gacatacatt cctccaccaa tccaacaaca gcaacaacc cagaaacagc 240

caacagttga ggccccctcca caaccttccc ttgaagaact tgtgaggcaa atgactatgc 300
agaacatgca gtttcagcaa aagaccagag cctccattca gagcttaacc aatcagatgg 360
gacaattggc tacccaattg aatcaacaac agtcccagaa ttctgacaag ctgccttctc 420
aagctgttca aaatcccaaa aatgtcagtg ccatttca 458

<210> 19283
<211> 445
<212> DNA
<213> Glycine max

<400> 19283

taattccact tttgattcct taattattct ttttagtgca ttccttaatt agtataattt 60
tacactttcg gtcttctaata caactatata tatagacaat ttgattctct ttgtgacaat 120
ccgaaattat tctcgtaaaa atattttatt ttaatatatta atcaattcta ttagggctat 180
tcactgceca ttatacctgt aattaataat tgattattat aattgattgt cataattaaa 240
tgaaactgaa ttattaacaa aaaaaataa aatataaaaa tatpatataa ttgattcttt 300
taatataata aaatattata taattgattg tttatatctt aatattattt taagttaact 360
atgttaaaac actaatatat atttgtaatt atagcatgtt gaagagtatg tatagctata 420
tatctttaat agagtttaac aaata 445

<210> 19284
<211> 451
<212> DNA
<213> Glycine max

<400> 19284

tctctgcatg atgaattgcc aaaatggatg gatccatgct tattgatttc ttttctgtgt 60
atgtgacagg gggggaaaag gagtgatggg cgaacacctg acggaatacg tccaattaac 120
tcgagatgtg gcctattacc tatagcacat ggaagtactc tttttacaag aggcgagaca 180
cacgctctga cccactttat ttgttttcca gtttatgctt ttgatgatat ctgttggtgt 240
ctatatatgc ttatgcaagt cacattatct cttttctgtg ttgttagtt ctattagaag 300
ggagatagaa tgatcaaaca caaaggagga aaaaaactaa taatgctgac tccttgacc 360
tttaacacac ttctcattta aagtctccaa ttgtaatcaa cttggatata atctagaaac 420

tagtgattgg aagtcagtat tctgattact c

451

<210> 19285
<211> 430
<212> DNA
<213> Glycine max

<400> 19285

tttgtttgtg gagtcgcctt tgatctcaac tgtaccatat ggaataacat tagtaacaac 60
aaaaggacca atccacttag acctcaactt accactcatg agtccaagcc tagaattata 120
caataacatt ttttgcccaa ccacgaagtc ttttttaact atcatgctat catggaactt 180
ctcgtctctc cctgcagaac ttggcattct cgtaggcttc tatgcggatt tcatctaact 240
cactcagttg caactttctt tcttcaccag cttgatccat agagaagttg caagtcttca 300
ctgcccagta agctttgctc tcaatttcca ctggaagatg acatgccttt ccaaagacaa 360
cccgataagg agacattcct atgggtgctc tataggcagt ccgatgtgcc caaagagcat 420
catcaagcct 430

<210> 19286
<211> 450
<212> DNA
<213> Glycine max

<400> 19286

tcatatggag ccatgccaat ggtagaatga acactattgt tatatgtgaa ctctatcaac 60
aggagagaac actcccaact ccttttttgt tctaatacat atgctcttaa aaggctctcc 120
gacgactgaa tgggtccgtc agttcggcca tcagtctaag ggtggtaggc tgaacttact 180
ctaagcttgg tccaacgct ttgttcaaac tcttccaaa cctagagggtg aatatagaat 240
ctctatcaga cactatgcta gatggcacac catgtaatct gacagtctca ctaatgtaca 300
gggagcgtaa cttctctaag gaaaacctaa tattgatggg gataaagtgt gtagatttgg 360
tcaatctgtc aacaacaacc caaatagaat caaaacctct gggggctcta ggtagtccta 420
caacaaaatc catggagata ctatcccacc 450

<210> 19287
<211> 442
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19287

ntgagctcag acattagagt tacgttacct cgaagattcc ggtgagacag atccaagccc 60
tccaccattg agtctgttac acagctgaca ccttgccaat tgcagtaac tgagctggtg 120
ccatcaccac atccagggaac tctcagctct tgggtgatgg catgtaatat atcttggtcc 180
cacgctcaga ccaacaagtt cagaacttga aagacaccaa gctaccagta tataacaaca 240
caagcataga aattccatca ctgtacagtg tacactgttg ttctcttctc ttctctgctg 300
aagcgaagtg ttagtggtta cactccactc aacagtgttc ttctccaaga gccaaaaaat 360
tggtatcaac actctaccac agcattaaca acttttgctg cttgttcttt tcacaaaaaa 420
aaagtgc aaa ctttctttca ca 442

<210> 19288

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19288

agcttgcgat cacgcaagat tgaattgtag agaagcttta agtggttcgag atcgtgaaga 60
gaatctggta aacagcgaat tgtttcgaag agtgaagctc ttgtttcgag tgcttggatg 120
caagtggggt ccaatgcgag ggtgcggctg caatcgga ttagctcggc gattcgccct 180
gcggaacggt gcgcgaggc gcggtgcatg tancattcgg cgaggaagct ctgcggcgcg 240
ctgcgccggc cgtcgacgat tttcgagaag tggcggatgg cctcgagta aagcccggcg 300
tcgagggcgg cgagtgcggc ggcgcgcgcg cgaggagga acttaatgtg gccgangagt 360
tgggccacgc tctcggagtc cgcgagaagg gttcgcggcg gagttg 406

<210> 19289

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19289

tgtcttcaat accaatcacc ttataattat gatccacagc tttaccagat tggcatcccc 60

catggtaatg ataaattggt agcacaatgt ctatgcaata ctgttctaaa gagaaggaaa 120
tattagcatg tttaggcctc aagttaactg gttaaattcaa catcaagtct attagatctt 180
ggaccgacat gttgtgggtan caaaactttg agaatgcttt tgagtttatc atatctatga 240
cgattatcat gccctcaaca catttcttta agtcttctgg atccttaca tagttgaggg 300
taactgatgg ctatcattcg catcacttg agaatatact tatttgtgta taaactttcc 360
taattatatt aagagggtct acaaatatga aacaaagaac aatc 404

<210> 19290
<211> 415
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19290

agcttgtatt attacaccat agctctgcac aaaatgactc taggatgtat atacttgtac 60
tgatttattt gctataatat ataatacata catattttgc ctatcaaaaa aaaatccttg 120
actttctcag gcaagtctta aaagaaagta tcacacgggc taccttgttt taagaaatac 180
ctcaataaga aaaaccacac taagtcttac cttggcaaca gcataaacac caaaaagacc 240
cgtgtccttg taattggtgt tgaaagccat aatgctctca gcaacttcat taatgccaat 300
tcgctgtgct aactccgaac tgtttatagt caaatgcat tcagttagta tcagggagag 360
aacttttctt ttntcaggaa ggggcgttca agtcacatac cccatgtgtt ttcca 415

<210> 19291
<211> 370
<212> DNA
<213> Glycine max
<400> 19291

agctttgaat cgattacaca catactataa tcgattacca gaagagattt tcagaaaata 60
ttctcaattg gcacatcttt tcatttggtt cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt gctaagagtt ttttaagaaca aaaaggctct atcctcttaa 180
aaagcaaaat ccgtttatcc tcttacaat tccttggcca aaacacttgt gattcaataa 240
ggaattattt gagtgtctaa attgtcaat ctatctcttt caagagagat ttcttcttct 300

tttttttttt attctgaaca gggattaaga gaccgagggt ctcttggtgt gaaagaattc 360
 taaacacaaa 370

<210> 19292
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 19292

agcttgtggt gcattatatt acatctatac aaaggaattt tttatggggc agcctccaag 60
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 ggttaaggat caaagatttg attaaattca atgaggcttt gcttgctaaa tgggggtggg 180
 agttggaaaa taatcagaat cagttgtggg ccagaattct attgtctaga tatggtggtt 240
 ggagggattt gatttctgat aggaactgca gtttagactc tccttggtgg.aaagacctca 300
 aggttatctt caagcagcag cagagcaaca caatttgcaa tcacctgaag tggaagctgc 360
 gatcgggaga taaaattagt tcttggaagg ataagtggct acatcataat ctg 413

<210> 19293
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 19293

agcttgtgac catttgaata actcaagagc ttgcattggt caattttgag cgtctcgata 60
 tattatgcgc cttaatcgga cctccgagtg aaaagttatg accatttgaa taactcaaga 120
 gcttccattg ttcaatttcg agcgtctcga tatcttatgt gcctgaatct gacctccgtg 180
 tgaaaagtta tgaccatttg aatttctcga gagcttccgt tgttcaattt cgagcgtctc 240
 gatatcttat gcgcctgaat cggacctctg agtgaaaagt tatgaccatt tgaataactc 300
 aagagcttcc attgttcaat tacgagcgtc tcaatatatt atgtgcctga atcggacctc 360
 cgagtgtaaa gctatgacca tttgaattgc tcaagagct 399

<210> 19294
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19294

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agcttttggg agaatcaaga agtgccttat gaatcctccc gtgcttatgc caccagtacc 60
tggaaggcct ctcatcttgt acatgacaat cttagacgag tcaatggggg gtatgctagg 120
gcaacatgac gaatcttgaa agaaagagcg cgtgttttac tacataagta agaaqttcac 180
gacctgttaa atgaactact ccttgcttga aagaacgtgt tgtgcttag tatgggcata 240
ccatcgctta aggcagtaca tgctgagcca tactacctag ttgatatcca agatggaccc 300
ggttaagtac atctttgaaa agctagctct cacgggtggc agtcttgcta tccgagtttg 360
acatagtcta ngtcacccaa aaggcgat 388

```

<210> 19295
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19295

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agctttaaca gtataatctg agctagctga ataaaaatct gacatgaagc agttattaag 60
gtaatcattg cttcccatgc ctgaaaagaa tagacatttg tttaggtagc tattaagtga 120
ttcattgtct cctctgaaga accttctcaa ctgctgcact gtgttgtaa agttagccac 180
ttgctcattc aatgatgtat gagccccctg caaacaatta cataagaaaa tcagaggagg 240
tgtggctcac gaattattgt gcctcacaga acgatatgta catttaatat gtgcttaatt 300
totcanaata ctcatgaata tgaatttgca tacaagggtta cttctgttt cttctcta 360
gcctgctgct ccagatgcat agctagctcc tottaatagt ctcaaacc 410

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<210> 19296
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 19296

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gtgctcacgt gaacaaaact gcgcagaacc ctagttgact ctgtgcagtt cttctctcta 120
tcacagccaa gatggctggc gtcaaccctc aagttgctgt caccatcccc aagcgttgta 180

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acctgcctaa tcgccctggt gggtacaagt gtggacgtaa gtgcgattaa ttaataatta 240
 ccccttcttt atatatacaa aggagagtta ctcacgtgac actactttga taaagatgct 300
 ataaaaaaaa gactattcaa ttatcaaaat tgaaagaaat atacacatat gtatatatat 360
 aaatatatat atatatatat gactctttct atgataactc ttaagcttaa cta 413

<210> 19297
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 19297

tttgcaagtc ttgcagcaca ctagcaaacg tagaattatt tggaacaaca gacgactgcc 60
 tcattcgaca aaacaactcc aaagcctccc tacttttata actctgagca taccgcgcta 120
 tcatgagact ccaaggaata agatcatctt tcggcatttc ttcaaaaaac tgctgcgtct 180
 cagcaatctc tccagacttg gttaacaatt caagcagcac agtgccaaca taaagatccc 240
 tatcataaca cgctttcaaa gcacatccat gaacactttt cccaacctca aaattgttcg 300
 gtctaaaccc cataaccctc atctggcaga caagtagcaa cgaatcttca tggcagtaat 360
 tctcagcata gcaagccatc atcccagtc aagataccat gcccttaca ca 412

<210> 19298
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 19298

agcttatttg aagtgaatgg attagcatgg gcagaaatgt ctccgcattg attggtaaatt 60
 ctgttcctca aattcctgaa aaatgcaaag atccaggtac attcagcata ctttgtatta 120
 tagggaatag taagtttgac aatgccatgc taaatttaag agcttctggt agtggtatgc 180
 ctctgtctat ttttaattct ctatctctag gtcccttcca gtcaactgat gtggtaattc 240
 atttagctaa tagaagtgtt gcctaccctg ttggtttcat agaagatgtc ttacttagag 300
 ttggtgaact gattctccct gttgattctt atattttgaa tatggaagat ggattctctc 360
 aaggatcagt tcccatcatt ctaggcagac cctctatgaa aact 404

<210> 19299

<211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19299

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 agcattagga tcgcaacgca attccaagaa ttctaacctg ttgaaattgt gatattgatt 120
 ctgggctgag ataaatatcc atcgcatcgt aaccttttcc tttctccgag aaacgcagag 180
 > ttgtcttggt aaaactacaa tcccggtttc gttaaccgtt agattatcgt gaaattctta 240
 tattttgttc gtgatccaat cacgcacacc tncaccattg ggatttgcac aacagtgtct 300
 atggagggag aaatatgcat cacacgaagc agtatagaat ggaggcttca atcgttttctc 360
 tatctctcta atgtttggga actctatcag agcaatc 397

<210> 19300
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 19300

agcttatctg ctttaataaa ctctgggcca gtattagcta atattgctct tggtagctgt 60
 gattaattca agtttcacat tggctagaga taagacaaag atagaatata taagtgggag 120
 acaacctca ctctatgggc taactgttaa aattgagtta ggtccaaact cgcattctag 180
 atgggtatcag agcctatctt agatctatta acaggetacc cgccatgtta tcagcgcacc 240
 atacccaaaa gtgctgctgg gcatgaggag atgtattgag aaaaacctcg gtcccacatt 300
 gattaaagat aacgtcaaga tagattatat aattgaggtg caacctcaa gttgaagtat 360
 gtatgtcatg tactaagctt cttataaata aagtcaacct gaggccaagt gattc 415

<210> 19301
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19301

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atgagtttat gagcaactca agattcaaca gatgtgacat ggaccatttt tgctacgtta 120
 agaaatatac taataactat gttatccttg tctgtgatgt tgatgacatg ttgatcgcag 180
 gatctagtat ggcagaaatt aacaagttga agcagcagtt ggcaaaaaaa tttgaaatga 240
 aggatcttgg tccaactaaa caaatccttg gtatgagaat tcttataaac aaatcanaag 300
 gaattttana gctgtctcag gagaaatata tacacaagtc gcttgacagg ttttaccttg 360
 aagattctaa gaccaggaat acccttttgg gatctcattt gaag 404

<210> 19302
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 19302

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 caacggaagc tctcgagaaa ttccaatggc cattaccttt aactcggagg tctgatttac 120
 ggcgataata tatcaagacg ctcgcaactg aacaacggaa gctctctaga aatccaaatg 180
 gtcataacct ttcactccga ggttccgatt cctgtcatga tatatccaca cgctccaaat 240
 tgaac 245

<210> 19303
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 19303

tggagccaag cgagagctca aaaactagac aaaataggta aggatgtgag gaacaaggct 60
 agacttgtga ccaaagggtta ctcaaatag gaaggcatac attatattga aacttttgat 120
 cctgttgctc atctataggc aatatgcaat atactatcct ttgttgctca tcatggaatg 180
 atgcgggtatc aaatagacgt aaaaagcact ttccttaatg gacttatcaa gaagtttatg 240
 tggaaacacac ccctgggtgt gagaggacta tctacctca tcat 284

<210> 19304
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 19304

agcttcagtc cctgagatTT tggttcccag aagacaacag ggagtgaaga ttgctgaaaa 60
ccctagctct gcaacaagtc ctagggaagt agaccggag atggacaaga aaatccgcag 120
tattgtgagt agcattctga aagatgcttc tgtgcctgat gctgagaaag atgttccaac 180
atcttcacc ccaagtgttt cctgacctga tgcagaaaa atgttccaa cactctccac 240
tccaaatgct gaagcccttc cttcaccag tgaagaggaa tcaacagaag aagaggatca 300
agcctcagag gagactcctg caccacgggc accagaaact gctccaggTg acctcattga 360
cctgcaagaa gtcgaatctg a 381

<210> 19305

<211> 358

<212> DNA

<213> Glycine max.

<400> 19305

taatattcga ttattattct tgtggaacct tcacccgacg aagacactga caaaaactta 60
tcttctcctt cttggacaaa gtatggcagg ctggggggcaa ataaattttc ttcccatcaa 120
accttgatg caactgtgat cttataccca tattaactag atcttgaccg gtattcaagc 180
cactcttcgt cttgccttga atgttaagga gcgttccaat cacactgtca caaacatttt 240
tctccacatg cataacatta ataccatgtc taaccgtcag atcaacacag tacgggaagat 300
caaagaaaat ggaccttttc tttcatatgc aactctgact tttattcttt ttttgggt 358

<210> 19306

<211> 368

<212> DNA

<213> Glycine max

<400> 19306

tgtttgaata caaagagttt actctgctaa gcaaacaaca aagggtctat gttctcgttt 60
tttaaccgcc aatacttttg acaaaatttc accacttgcg tccttttagcg tccaatactt 120
ttgggtctgga tgcactgacg tatagaaggg atcatatcat tcctttgtat tgggtgccat 180
cctctttctt tgattcctcg tccagttcaa gatgtgtact cgaatgcatg cgtgtcttca 240
ttccttttac atcaaccatt ttgaactttt ttagaagttc attcacatac ttggtttgat 300

gaactgaaat gcctttatct atctgcttca ttctcgcta acgcacaatt tacgtcccta 360
tcatactg 368

<210> 19307
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19307

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cttaaggggt tgtggggtgc gcccctcccc tgaccancat atanaccttt ggccttccat 120
gcagcaacct aaagcaattg agcagcctga agcttatgct tgaaatattt acaatagacc 180
ttctcaacct cagcagcaaa atcaaccaca gaagagcaat tatgaccttt ccagcaacag 240
atacaacccc tggatggagg aatcacctta accacagatg gtccagccct cagcaacaac 300
aacaggagcc tgcttcttcc tttcaaaatg 330

<210> 19308
<211> 352
<212> DNA
<213> Glycine max

<400> 19308

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ataccaatac caaggtgagg attggtacaa ttgaagtga tgcgggctc tatcaattca 120
ccccgaagc accaaaaaca cataccatat gttctatcat tacacacca aagtgtctaa 180
tcctccctgt aaatctatgg cattctcgta tgggtcacc cttctccgaa agattacaag 240
ccatgcaaac atacctatcc tttcttaata ataacaagag tttcatttgt aatacttgcc 300
attatgcaa acataagaaa ttaccttttc atctaacaca tctcatgcat ta 352

<210> 19309
<211> 210
<212> DNA
<213> Glycine max

<400> 19309

agcttgaagt acaagaaatg agtacaaaga gagggagagg gggggggcac caaatctata 60

cctcaaataa ggtctgaact ttgaagttta atttctcaca tgatcaaagt tgaaaaatgc 120
acacacacgg cctttattta tagcctaagt gtcacacaaa attggagggg aatctgaatt 180
ttattcaaat ttacttgaat tgaattttga 210

<210> 19310
<211> 291
<212> DNA
<213> Glycine max

<400> 19310

atctttctgc tttcttactc cacatacaac cagatcagga tgcacactcc acaccacgag 60
aaaacgacat tcaactactaa agatgccaat ttcttttaca tggccatatc cttcggcctt 120
aaaaatgcc a gtcctacata ccaacgactg atggactgag tctttagaca atagatcgga 180
ccaaacatcc acgtatatgt ggacgacatg gtcgtcaagt ctaaaagcat agcccaacac 240
gtggcagacc tacaagaatt ctttggggaa ctctgcaa atgacatgtg c 291

<210> 19311
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19311

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attttcagat gccagccta naccatgag aagggagaag aaagaaaaag ggcattgttac 120
tgtattgaaa tccatggaga tattctacca gaagaagcat gtgtatcaac taattaatca 180
cctgtatccc attacttaga gcaccaccaa aaaggataag tattgaatca catacaccac 240
tggaatcacg gatgacaaca gcattgacct taactctctc acccaaaacc aaccaagggt 300
aaggaatggt ctggtaacgt gcattcactg aattctg 337

<210> 19312
<211> 316
<212> DNA
<213> Glycine max

<400> 19312

agcttgtagc atattgaaac ctcaatatat cgagaagctc gacattgaaa gaagaaactc 60
 tgagcaaatt gaaacgacaa taacttttca tttggatgtc cgattgagta ccgcaatata 120
 tcgagctgct cgatattgga aacataagct ctgagcaaatt tcaaacgaca ataactcttt 180
 actcggatgt ttgattgagt cctgtaatat atcgaggcac tcgaaattga aatcaagct 240
 cgaagccaat tcaaacacaa ataaagcttt actcggatgc ttgattgagc tcccaaatat 300
 tttgagacgc ttgaaa 316

<210> 19313
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 19313

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 ggctgcatct gacttcacaa gagccttctc accattagca tatcacctg catagctttc 120
 tcccaagct cttcttcac ctctctctct tcaactgattt cagattcact ggtgatttct 180
 ccatctgcct tcatgatcat ggctctcctg gttggacagt caaaagcaat atgtcctctg 240
 cctaagcatt tgaagcattt tatgtttctg gtaccggtgt tggatcatgg cgtacaatta 300
 tgcttagctc tagctactga cattccat 328

<210> 19314
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19314

agcttgtgca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tggactgatt 60
 catttgcttc caaagtttca tggccttgca cgtgaagacc cgcacaaaca tttgaaagaa 120
 tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
 aaggcttttc ctcatcatt agagggagtg gcaaaggact ggctgtatta ccttgctcca 240
 aggtccatca cgagctggga tgaccttaag agagtattct tagaacnaat ntccctgct 300
 ttcaggacca caaccatcan gaggatatct cacgtattac acaactcagt 350

<210> 19315
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19315

aaagagacaaa tattccaact gactragatt agcatattct tntggaatga caaacaatgc 60
 gcctaccagg gaaggagagt ctgctgatgg aatctcccat aaccataaat gagattttgg 120
 atgttagcat ttcgtttcta aatgaccatt tagaggaaac actgggttcg acaaaaatag 180
 aagaaatcca ctcaaagtgt atcaatctcg cacaggtaag tgtttcatcc taattccgaa 240
 ccatagatat gtcatgactt gactttgcaa attatttcct atcaaataa aaattacatg 300
 cgtgatcatg gatcaatagg gcttcccttg ggaatgggtt cttttggtgg tctcttcttt 360
 cggtctttgc gtgtatttgg cttttgattc tcttggtttt ttctttttct gttct 415

<210> 19316
 <211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19316

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 actctaaaac tactctctct cctgcaact atggactata attgggctga caagaatggg 120
 tcagacttct gacctcacg gatcttgctc aagagtctgc tgggtgactct caacatcccc 180
 aacttaatgc tactacaggt gatctcacat gccaaactca tgtctctaaa ctgctctaag 240
 aagoccaaact ctctaacatc aaaccagaca tttgaaggat ttctactta cgcatacta 300
 ctac 304

<210> 19317
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19317

agctttgaaa gtatatatttg actaaatata ctcaaaaggg accaaattgt gacaatattt 60

gactaatagc attaatgggt tcaatgctaa tacgatattt ttattttata tagaaatata 120
gtattgtatt agcatgagaa aacataaata aaattaagac aaagattaaa acaacttaaa 180
aaagaaaaaa tacagataat ttaatttaaat aaattatgtg agctaataat taatgttttt 240
ttgtattgaa taattagttt atatataata ataaatttaa ttatatgata taagttggat 300
cgggttgggt taaaaaata taacttggta tccaaccgt atatgattat gcttga 356

<210> 19318
<211> 345
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19318

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ttgctccttg ccttggtatg aaccagctc actatgccct tattttcccc aaattctggt 120
tcagttggcc tttcccagt tactagttec atcaacacca ctccaaagct gtacacatca 180
ctcttctcat tcactttgta cgtgtagcca tattctacac caattcaaac aaaatccata 240
cattaataag catgattaaa gatcgcaaat taacatacac aatacactac aactcatctc 300
ttatcaaaag acaggagcta ctactcaatg ctaaccagga gcaat 345

<210> 19319
<211> 287
<212> DNA
<213> Glycine max
<400> 19319

agcttgaagg caaactggat gcattgggtca acttggtaac ccactctggcc ttgaatcaaa 60
aatttgtacc tgtcgcaagg gtttgtgggt tgtgctctc tgctgaccac catacagacc 120
tttgcccttc catgcagcaa cctgcagcaa ttgagcagcc tgaagcttat gctgcaaata 180
tttacaatag acctctcaa cctcagcaac aaaatcaacc acagcagagc aattatgacc 240
tttccagcaa cagatacaac cctggatgga cgaatcacc taacctc 287

<210> 19320
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 19320

tcactaaagc ggtgatccat ctccacacat attttatcaa tagcaacata naaaatctct 60
gcacggtaat gatgaagaat agtgatagtc ctcccttctg ctcttgaacg accccgaac 120
ggcttttctg catccatatt tggtaaccaga atactnttag caacacaaaa tcttgggaca 180
tcggcaaaaa aattattcca gccactctct ctcatgtgc ccaaccgagc tttgacaaca 240
tcaactaatt ccatggcatt cacaatatta agatcttntc tttgcaatat atttgaaagc 300
tc 302

<210> 19321

<211> 273

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19321

gggcctttcc aagtgaagg ccttggagga aagaggtatc cctatgttgt tgtggatgat 60
ttctccagat ttacctgggt caactntatc agagagaaat cagacaccct ttgagtattc 120
aaagagttga gtctaagact tcaaagagaa naagactgtg tcatcaagag aattaggagt 180
gaccatggca gagagtttga aaacagcaag tntactgaat tctgcacatc tgaaggcatc 240
actcatgang tctctgcacc atcacaccac aac 273

<210> 19322

<211> 255

<212> DNA

<213> Glycine max

<400> 19322

ctcgtattgc atcaccattg gtggaggtct accaaaaact gcttgaaatg gtgtcatacc 60
caagcttttg tggaaggaag tattatacca aaattgagcc caaggtagca tagtaacca 120
actcatagga tgatcaaata caaagcacct tagatacatc tcaagggctc tattaagatt 180
ctcagtcagg ccattggatt gagggtgata tgaagagctc atggccaatg ttgtgccttg 240
agctttgaat aattg 255

<210> 19323
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19323

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 ccaagattat gttccaatat cttntgtca tttatattta tcccacact tttctttcat 120
 ttcanaatcg anattctata aatTTTTTga aatgaaagaa agagaccggt tatactgaaa 180
 tagaaataag tgttccaaag gaaccttctc ttctaccgaa gattggcctt tgataaatga 240
 tcnnggccat ttttctattt aataattaat atgaatattc tctttattat cttt 294

<210> 19324
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19324

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 ttctgtctct tctcttctc tcccttcatt catctcttct tctctccaag ctcttatcca 120
 tggcctccta tgggtggtgag cttcttctag actcatcttc tctcgaagt ggcattctct 180
 ctctcttcat tctcgattct gctgccattc atcttgcaag aagcaaagga atccattgat 240
 gaagaagatc ctatgcctac aagctccaat ggagcttaca tcatggggga caaaggata 300
 gtgcttttac aactctctcc tccactactt gtatgaatat g 341

<210> 19325
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 19325

ctccaataaa cctcctgacc ttacagcaaa atcaacctca gcagtagaac aattatgacc 60
 tctccagcaa cagatacaat cccggatgga ggaatcacc taatcccaga tggcttagcc 120
 ctcaacagca acaacaacag cctgtctcct cctccaaaa tgctgctggt cccagtagac 180
 catacattcc tcttctaag caacaacaac aacaacaag acagcattta ctgagacaac 240

aatccactat tgaggccct cctcaacctt cattggaaga atattgacgc aaatgacaat 300
acagaacatg ccagttcagc atgagactat agccctc 337

<210> 19326
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19326

atTTTTatct cttgttccat caaagcaaac acatgaataa tcttcttatt aagagcatac 60
acttctatat tggcttggc taggtgatac atcaattgaa aattatagtc tttcataaac 120
tccatgtaac atatttgtct tatgtacaaa caaatacttc caactcatga gatcagtga 180
cacatcaacc tttgcttcag aaggataatg tcttcatatt ttcaaaacaa atatcatcac 240
aacaattcta gatcatgtgt aggttagtgt ctctcacaca tcttcaacta tcaagatgca 300
tatgctataa ctttctatg ttacacacca atatgcaact canaccttga taagagacat 360
cat 363

<210> 19327
<211> 371
<212> DNA
<213> Glycine max

<400> 19327

tatcattttt tcttatacaa aaatgaagct gggaggccac ttgttaaaca agtggccaca 60
aatatcttaa gaaggggggt tgaattaaca tattgcaaac tatttcccca attaaaattt 120
tattttaatt ctaatgcaag ttacaagttc ccttaaaaat gaactcttaa ataatgattc 180
aaataaaaca atctgaatat aaatgcacaa caataataaa taaaagattt taagggaaga 240
gaaagtgaaa actcagattt atactggttc ggccacacca ttgtgcctat gtctagttcc 300
taagcaacco gcttgagagt ttcactatct tgtaaaatcc ctatacaagt tttgaacaca 360
caaggacaat c 371

<210> 19328
<211> 292
<212> DNA

<213> Glycine max

<400> 19328

aaacctccgg ggcagcaaac ccaacatgag cacaataata tgacctttca agcaatagat 60
acaatccagg ttggaggaat catccaaata tgagatggac aagtcttcca caacaacaac 120
agcctgcccc tctarrtcag aatctctctg gtccaaqcaa gtcatatgtt cctctcccaa 180
tgcagcaaca gcagcaacag tcacaacaaa gacaacaagc aactgaggct cctcctcaac 240
cttccataga agaattagta aggcatatga ccattcagaa tatgcaattt ca 292

<210> 19329

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19329

gaaattctga tactggggac agatgtcgta ccggatgtca cgacttcacg cttcagaaca 60
tgcagattat atgtgtctgt atgaacagat taaacaagta aataacacaa gagaattgtt 120
aaccagttc ggtgcaacct cacctacatc tgnnggctac caagccacgg aggaaatcca 180
ctaaaatagt gttagttcaa agtctaacag ccaactgttta caaccttctc acctaaccac 240
taccctgca atctctacct aagagccact cttagatatg agaaccctgc tcaactccctc 300
tcaaccacac tcccgtgtgt acaaataaat c 331

<210> 19330

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19330

tagcttgaga tgcttgacct ttagcaaaca gtatgtattc ttctgccaac agtaaatgag 60
aaacacgagg gccatttgag gtcaacttaa ctggcttcca cctcacctcc catcagacac 120
tacctaagag atcatatcac caagcctctc catacatgat acaaataaat atgggaacaa 180
tgggtctccc tgacgaagcc ctctcacagg aataaaacta ttttttgttc tacctccatt 240
ccacatgata gaaatagaag tagatgacag agcatgtata atcacagaca taatggtatt 300

atgaaaataa caaaaatnaa aaagagtttc ccaccaacaa aatcctagtt cacacgatca 360
tatgcct 367

<210> 19331
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19331

agcttgccct gctcatgata tatttgangg acttatgatc actatgaatg acaaattcct 60
tgngataaag gtagtggtgc catgttttca aagcccgtac taatgcatac aactcctaata 120
cataagttga atagttaagg gtaggaccac ttagcttttc actaaaataa gcaattggat 180
ggccttcttg catcaacaca gcccgaatcc caacatttga agcatcacac tcaatttcaa 240
aagattattg aaagtttggc aacgcgagta tggnggcatt agttagctnt tgcttaagaa 300
cattgaaagc ttcttcttgt ttctcttccc atttgaaacc aacatttttc ttgagcactt 360
c 361

<210> 19332
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19332

acaaganaaa aactagnata tgagtacatg gataatggaa gcctacactc ctttattttt 60
ggtagcgaat atgaagaatg ctttcataat tcgattaagt ggacttgcac gtttgtttgt 120
ttgttttgct ttttaattcc agtcacaatt agcggctctt taatcttgaa tatcttatat 180
tgaatgaata gcttgctttg taaaatcaca gataaaatan agggtaaatt tctggattgg 240
cctcgacgct tccacataat atttggaata gctcgaggac ttctgtatct tcatcaagat 300
tctcgattaa ggattatcca tagagatct 329

<210> 19333
<211> 210
<212> DNA
<213> Glycine max

<400> 19333

attatatgcc ctaatctgac tccgttgatt agtatgacaa tttgaattct ggagagctgc 60
cgttgtgcaa tttcgagcgt cttgatatat tatgcgcctg aattggactc tcgtgtcata 120
agtatgacca tttcattttc tcgagacctt ccgttggtca atttcaagct tctcgatata 180
ttatgcacct gaacgtgac ttcgtgtgac 240

<210> 19334

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19334

agcttaatgc tgtatggttt gtaaacaac ataaggcgag gcttggttg aagggatatg 60
cgcagatggt cggggtagac ttctcagaaa ctntntcttc ggtttccagg ttggatacca 120
taaggctggt gtttagctctt gctgcacaaa aaggttggat tatacatcac atggatgtta 180
aatcagcctc tttgaatggg cacttggaag aagaaaattt tgtagagcag cttgaacgat 240
ttgtagttca tggacaggag gagaaagtct atcggtgaa aaaggccttg tatggcttan 300
agcaagcccc aacgtcttgg tatggcagaa ttgatgcaca ttgataaac ttatgctttg 360
aaaaatgtct aagtgagttt acc 383

<210> 19335

<211> 330

<212> DNA

<213> Glycine max

<400> 19335

aaaaaatatg cttaatgcga ctatccatgc tcgtttgctt gtttcaacc gtacaagacc 60
ttgtttaatc tgtaaaacttt atgctcactt ccaatcttga cataaccgg tggttgttca 120
ataaatactt gtccttcaa gtatccatgt aagaatgttg atttaacatc tagttggcaa 180
atgggccatg aattttatgc cactaaagca atcatcaatc tgatcgtgtc atgtcttgca 240
acttgagaaa aaacttctgt atagtcaatc ccatattgtt gcttgatcc cttcgccacc 300
aaacgtgcct tgtacttgtc aacttcacca 330

<210> 19336
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 19336

catcaagctt ttttttttgt gcatagaatg tgggggaaaaa ctagtaagtg tcatgaatct 60
 ctgacetaag cttcaaccaa ttaacattgt ttgaatgaca actgtttagt ttgcaccgca 120
 atcacatagt ttgtccacca tgggtatgctt tatgttccta ttgggtatag ttttggtatg 180
 ctttatgttc ctttggttat agctttggtg gtagaatgtt taatttggag tccacaagag 240
 gaggatctcc atatggtgct ggagttattg ctggagatgg tagaagacaa gcaagtgaag 300
 tggagctgga gctcgagag tatcatggca cgtatatatg aaattagccc ataaat 356

<210> 19337
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19337

tcgactcatg aacaggggat cttgatcgtg tacgangctg cngngcatgc cgtgaatctt 60
 tccggtgggc tccatgaata tcttanccac tgtagtagca gtgtagtgca ccggaagtat 120
 ccccatatgc accccttttg agaaacgggc caccacgacc aggaccgcca agggcggcaa 180
 gccaaactata aagttgaggg agaggtcctc ccaaggtctc gtcggaattg gtagcggaca 240
 tagtaatctc tggctectac ggtggtcatt cttggtctgt tggcacacga tgcacgtgga 300
 gatgaacaac tggacatcct gcttcataga tggccagacg annattgcac tgatgcgagc 360
 caaggtcttt gtattctcat gtggccgcca gtgggagtgt tgtggaattc tgcgacgatg 420
 gtggagatgg cctgaagacc tttggg 446

<210> 19338
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19338

agcttganaa attctcantc agatagttat tagtagcacc aaatatgata tcatccacat 60

atatctagat gattaggaat tgactttctat aatcttttacg aaatagagta gtatctacct 120
 ttccataatc tttgcttttaa accatacaag gctttatttaa gtttgaatac atgatgaggg 180
 tagatagaac tctcaaacct aggggggttgt tccacataga cttcttcctt gataagtcga 240
 ttaaggaaca cactntntac gtccatttga tataacatta taccatgatg agcaacaaag 300
 gatagtaaaa tctgtatcgc ctctagacga gtaacaagaa caaaggntc actatctatc 360
 ataccttc 368

<210> 19339
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19339

agcttgaatc ggtctctcag tgtgtataaa gttatgagca ttntaattgc tcgacagctt 60
 ccgttggttca ttttcgagcg tctctatatg tgatgcgcct taatctaact tccgtgtgaa 120
 aagttatgac catttgaatt tctcaagagc ttcctttggt caattttgag cgtctcgatt 180
 tgtgatttgc ctgaatcgga catccgtgtc aaatggtatg accatttgaa tttctaaaga 240
 gctttcgttg ttcaatttcg agcctctcga catattatgc gcccgaaatcg ggcattcgtg 300
 tgataattta tggccatttg aattttctcaa gagtttccga tgtttaattt cgagcgtatc 360
 gatataattat aagcctg 377

<210> 19340
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19340

agctttttat atattcggga ctcaatcaga ctgcgagaag aagtattgtc ctttgaattt 60
 gctaacgctt cngattcaat ttcgagcgtc tcgatataat acaggactca atcagacatc 120
 cgagttataa gttattgtcg tttgaatttg ctgagagctt caacattcaa tttcgagctg 180
 ttcgatatat tactggactc aatcagacat ccgagtaana agttattgtc gtttgaatat 240
 gctcagggtt tcagtattcc atttcgagca tctcaatata ttacgggact caatcagaca 300

tccgagtaaa aagttattgt cgcttgaatt tgctcagagc ttcagtaatc catttcgagc 360
 gtctcgatat attacgggac taatcagaca ttcgagtaaa agttattgcg tttgaattgt 420
 cagagcttca cattca 436

<210> 1934
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 19341

tgaagctctg ataccacttg ttggacaagt ggcctcagat ctcttaacaa cggggggggt 60
 gaattaaaat attcgaaact ctttccctc attaaaaatc tatcttactt tttacttaag 120
 ttatgaattc ccttaatgac aatcttggtta tatattaatc cacatgaagc aacttgacta 180
 tgaatataaa gcactaatac ataaaggaga ttatcggaag agagaatgca aactcaatta 240
 tatacatggt -cggccacaca ettgtgccta cg 272

<210> 19342
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19342

agcttttcat attcttattt ggtggctnga attaccttac acatacaagg ctgatatag 60
 ctcgtagtgt gagtgtagtt tcaagatatt tgcactctcc aactaagcaa cacttatgtg 120
 caacaaggag ggttcttaag tatgttgtag gttcaatcaa acttgagta ctttatgaga 180
 gtgtggataa tttcaagttg gttggctata gtgatagtga ttgngtaggg ttcttagatg 240
 ataganagag tacatcagat tntgtattca gtcttggtt gggagccatc acgtagagct 300
 ccaagaagca agacacagtt gctttatcat catctanagt ngaatatgta g 351

<210> 19343
 <211> 276
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19343

agcttataaa tatctaaatt attatnntaa ataaatattt gtttgataga ttagatttaa 60
 aaatataatt gtcaatgata ttntatatca ttntatgta aaagagataa aaatntacat 120
 gtaaattaag atattttnta tttatcaata tatntataac gaatgttcta aaattagaga 180
 ttgaccactc aactaaagtt gattaacata gagaaaaag taagtgttat gtgtacattn 240
 ttttaagagcc atataagaat aaagtgaat tgacat 276

<210> 19344
 <211> 337
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19344

agctntncac tcttatgtct gnattaaagcg cataatatat cgagaanggc ggaattgatc 60
 aatggaagct cttgagcaat tcaaatgatc ataactgtta actccgatgt ccgattcacg 120
 cgcataatat atcgagacat tcgaaattga acaatggatg ctcttgagaa atacaaatgg 180
 tcataacttt tcaactctgag gtccgattca gactcatcat atatcaagac cctctaaatt 240
 aaacaattgg agctctcgag aaattcatat ggtcataact attcactcgg acgatcaatt 300
 caagcgcac atatatagag acgcttgaat ttaacaa 337

<210> 19345
 <211> 347
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19345

agctttttgc attttctaac gacaataact nttactcgg atgtgcgaat aagtcccgta 60
 atatatcgag acgctcgtaa ttganaactg aagctctgag caaattcaaa cgacattaac 120
 atttgactcg gatgtccgat tgcgtcccggt aggatatcga gacgctccan attcagaacg 180
 gaagctttga gaaaaatcta acgataataa cttttaactc ggatgtctga tcgagccctn 240
 gtatatatca agatgctcga aattgacaac ggaagctcta agagaagtca tacgacaata 300
 atttatgact tggatgtccg attgtgtccc gtacgatatc gagatgc 347

<210> 19346
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19346

ctcagctata caattataat aaaagaacaa tuacaatnga atattctata catgttccct 60
 ttgatgagtc taatgccatt cttccaagga aggattttct aatgatatt tcagattcct 120
 tagaagatac acatattcat ggaaatcatt ctaaagaaaa agacgaagga agaaatgagg 180
 attctcaaga taatggggct agaggaaata atgaacttcc aagagaatgg anagcctcaa 240
 gagatcatcc cctcgacaac attattgggtg atatatcana aggggtaaca actagacact 300
 ctcttaaaga tttatgcaat aatatggctt ttgtatctat aattgaacct aaaaatataa 360
 tagaagtcac agtacatgat acatggatca 390

<210> 19347
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19347

agcttagctc tagatgtgat ggacctntc aggttntgga gaggatcaat aacaatgcct 60
 ataggttgga cctcccagaa gagtatggag tcagcaccac ttttaacatt tctgatttaa 120
 ctcccttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaact 180
 ctcttcaagg ggaaggggat gatgcaatcc tccctatgaa gggaccaatc actagaacca 240
 tgagcaagag gctccaagaa gattgggcta gagctgctga agaaagcctt atggttctca 300
 tgaaccttat ggtagatttc tgagcccatg ggccaaagtt gggccaatt atctttgtac 360
 atattagact aggatgtcat tatatttggc ccttgtatat anggctccat att 413

<210> 19348
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19348

cttctttatc cccatatcaa ttatgcagct tgtagttaac atgaatggcc ctcccaatat 60
 tataggaatg tcattatctt cacagacatc cattaccaca aagtctatcg aaaagataaa 120
 atgtttactc tgaccaaacac atctttaatt actctgtatg gtctggtaat ggagcaatca 180
 acaagtnhta aagtcacact agtgggcatg atctccaact ctcccaacct tctgcacatg 240
 gagagtgcca ttaagttaat attggctcct tggacagagt ggcatttgc taaaagcttt 300
 ccaagggcat ggttatttcc agtttctga aatatctaan aatcttgcaa at 352

<210> 19349
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 19349

ccgtgatgtt ctgtaagag cgaacagtga aatacaggat gaatccttgc ctctcgggt 60
 agtttgagtt tgtatgagac ttggcccaca cgttcgatta tctgaaacgg cccaaagtat 120
 cttttggtta gttttgggtg tattgaacca actacgggtgc gttgccggaa gggacgaagc 180
 ttaacgtaga cccactggcc tatgctgaag gtgacgtcac ggcgcttggg atccgcgaat 240
 ttcttcatgg tgtcttgtgc cttttgaaaa cgatgttgta acttccgggtg gatctcttga 300
 cgcgagtgtg gcatg 315

<210> 19350
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19350

agctnccatt gttcaattnt gttcgtctcg atatattatg cgctgaatc gcacatccga 60
 gttaaaagtt atgacctttt gaatatctcg agagcttcca ttgttcaatt tcgagcgtct 120
 caatatatta tgcgcctgaa tctgacctcc gtgtggaaag ttatgaccat ttgaatttct 180
 cgacagcttc cattgttcaa tttcgagcgt ctgatatat tatgcgctg aatcggaact 240
 ccgagtgaag agttatgacc atttgaattt ctgagagct tccgttggtc aatttcgagg 300
 gtctcgatat attatgtgcc tgaatcggac atccgagtga aaagttatga ccattttaat 360
 tgctcaagag ctccattga tcaattttgt acgtctcgat atattatgcg cctg 414

<210> 19351
 <211> 296
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19351

acatttgggg ttgtatggc gctctataag tggattccca ttaagttagt atacaagatc 60
 atcttgcttg ccacaaactt cattntgggc aacaccaatc actatggcat caagaggccc 120
 aagaccggcc caatagagct caaactcgcc acagggaaaa cccacatcc tgatgttggt 180
 caagttgcac acataaaatg tggtaacata aaggtataca caatatggct cacattaagt 240
 gactccattg ggtccttttt taccgacaaa tgttagacgt tagaatatta gttttt 296

<210> 19352
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19352

agcttgntta tgtctctnaa gtttgcttct gctcaacaag ggagggcttt cttcgttttt 60
 ggcgattcac tcgtggacag tggcaacaat gatttcttgg ctaccactgc acgagcagat 120
 gcccctcctt atggcattga cttcccaaca cacagacca ctggacgctt ctctaacggc 180
 cttaacatcc ccgacataat cagtatgact ttgtgacatg ttagaaaatt agtagaatgg 240
 attagtgact aaatttagtg acgaaaaatt ggttattcct cactaactct aaaatcacta 300
 aatttagtga cattttttaa tataaaaaaa ttacatataa atttttcagt cactacattt 360
 aatttttata caagttataa gaatgtttgt ttggttctag tctccattt gcatgcatg 419

<210> 19353
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19353

agcttctcta tatattatgc acatgatggt cataacttgt cacacggatg ttcgatattg 60

gcgcatcaca tatcaagacg ctctgaattg anaaccggaa gctctcacia aattcaaagt 120
gtcataacct gtcacacgga agtctgattc agggcgagta tatatcgaaa catttgtaat 180
tgaaaaaaga acgcactcga gaaattcgaa tggtcataac tttgtcaacg gatgtccgat 240
acacgcgcac aatatafcga gacgctggaa attgacatcg tatgctctca agagattcat 300
atggtcctaa ctatcagacg gctagtcga tctggtgca taacatattg agactctaa 360
aattgaac 368

<210> 19354
<211> 309
<212> DNA
<213> Glycine max
<400> 19354

acataactg taatcgatta ctttttggtt tttcagaaaa cattctcaac agtcacatct 60
ttttatctgt ttcttaaagt gccatcaagg gcttatatat atgtgacttg agacacgaat 120
ttaacaagag tttttcagaa caaaaaagtc ttatcctctt ataaagcaaa atcggtttat 180
cctcttacia attccttggc caaaacactt gtgattcaat aaggaattat ttgagtgtc 240
aaattgttca atctatctct ttcaagagag atttcttctt ctcttcttct ttattctgaa 300
aagggatta 309

<210> 19355
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19355

agctngtggt gnattttcat ggttgacgtg ccgctttgag gaagaccaga taagatgaaa 60
tggacgggct gtttagtttg cacggcgtgc tgaaacagcg cgaggagagt ctcaataggg 120
gtgtgaaaga gatgcancat gagatggatg ctttggagca gcagttacag atgggtgttga 180
tgaatactga tgtnttgga ggggtggttga tggataatca ggggaagaag atggccggtt 240
tggagaatcc cgaggatgct tttgagtgtg cggatgtgct ctccaagcat atgcttgact 300
gtactgctgc tgatttggcg attgaggaca cgctt 335

<210> 19356
 <211> 292
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19356

atgctctttc tcggcatcat acattacttt ctatgcttca aacaaaattc attgggcttc 60
 aatgtttgaa aagcatgtat gaaaatgatg aaacttttgg agaaattttt aaaattgtga 120
 aaattcttca gaaaatgggt tcttttagaca tgaaggcttt cttttcaaag aaaaaaaatt 180
 gtgtgtgcct aaatgttcta ctagaaattt gcttgtttgt gaagcacatg aagganggtt 240
 aatggngcat tntggggtcc aaaagaactc tagaaaatta caagaacatt tt 292

<210> 19357
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19357

agctttgnat ggtataatgt gtangacacc cctatgttgg tcagagctcg aaaaaagcct 60
 taccttatga ccagaagtgg tacatcaaac cacaaagaag gtcaagttta tccaagaaaa 120
 gatgacgact gctcanagta tgcagaaaag ttatcatgat aagatgatga atgatcttga 180
 attcgagggt ggtgatcatg tattcttgag agtcactccc tggactgggg tttgtcgagc 240
 attgaaatcc cgaaaactaa cacctcgctt tattgggtcca tttcaaattc ttaagagaag 300
 ttgccctgtg gcataccaaa ttgcattacc cegtcttttt ctatcttcac aatgtctatc 360
 atgntgtctc aactcataag tatatccctg atccatccca tgtgattgaa tt 412

<210> 19358
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 19358

atagttaaga agacccgagt aggaatgagt tgaatttata tatgaagcat gaaattagcc 60
 gcagccattg aatcagtctc aatccaaagc tcctttaaat taagctccca cgcattgtcc 120
 aaagcagtaa tgagccccca aatctctact atcataagag aacaacaacc caatttctctg 180

gtaaactcgt ttatccaatg gccattacca tcacgcatca ctccaccaca gctagccttc 240
 tcgccaacat ctataacaga agcatcaaca ttgtacttaa aatagcccac tgaggcaacc 300
 aaacaaaaag cctatccgca gaacaagggt gcccatg 337

<210> 19359
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 19359

accattgtgt tgtggtgcat atacagtcgt aagctctctt cgaatgccat gttctgcaca 60
 taaacatttg catattcttg tggagcaata ttcattcacct cgatctgcgc gaagagtctc 120
 tatagacttt actagctcat tatcaacact tgctttgaag cttttaaatg tacaaaacgc 180
 ttccgattct tctgtataa tataaccgcc atgttttctt gaataatcat caatgaagca 240
 tattaagtat ctcttacctc cattagaaaa tgggtttatt ggaccacaaa tatcagaaaag 300
 caccagctcc aagacatcta tagctctcca tgactcttct ttgcgatact gagatc 356

<210> 19360
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19360

actttgattg cttattcaat ggagcngaca agaataggtn cagactgatc aacacatgta 60
 cagtggccaa ggatgcttgn gagatcctaa aaatcactca tgaaggaacc tccaaagtga 120
 agatgtccag attgcaacta ttggccacaa aattcgaaaa tctgaagatg aaggaggaag 180
 aatgcattca tgacttccac atgaacattc ttgaaattgc caatgcttgc actgccttgg 240
 gagagagaat gacagatgan aagctggtga aaaagatcct cagatccttg cccaagagat 300
 ttgacatgaa agtcactgca atagaggagg cccaagacat ttgcaacatg agagtagatg 360
 aactca 366

<210> 19361
 <211> 379
 <212> DNA

<213> Glycine max

<400> 19361

actaccggat ttgtatcttg gatgggtgat tgtgttctta catggagttc taagaagcaa 60
ggcattgtga cactttctac ttgtgaagcc gagtatgtag ctgcaacttc ttgcacatgt 120
catgccattc ggctaaagaa attotcggag gaacttcagt tgttgcataa ggaagacaa 180
aagatctatg ttgataatag atctgcacaa gagcttgcca agaactcggg gttccatgaa 240
tgacagtagc atatagatac aaggatatcat ttcattagag agtgcattac acagaaagaa 300
gtagaattga ctcatgtgaa aactcaagat caagttgcgg atattatcac caagcctctc 360
aaatttgaag atttttgaa 379

<210> 19362

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19362

agctttgaat gatgcctaaa tagtgggtgtg tgggtgcggga gacggttttt ttcctctgcc 60
tgtannngng cgtaaagat tttgggtttt gacttgtgag agctgttggt ttgtgcctga 120
tgagtcttga acttatggaa atgtggagat tgtgttgctg aatttatgac tgtatgttgt 180
cttttgtggt gataggaatc aacaatatgg gcagcgttct tttcacaagt actggcagta 240
aatgacgcga cggtaaagtt tgagatttgg gacacatcat gacaagagat gtagcatagc 300
ttggctccga tgtattacag aggtgttact gctgctatca ttgtctatga catcactagc 360
tcggtatgat atctttgcat ttggatattg ttgaatacct atttaaag 409

<210> 19363

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19363

agctntgatt caattctaac gatnanntaa cttttactcg ggatgtcccg attgaagtcc 60
cggatatatat ctgacacgcc tcgaaatttg aatgttgaaa gctctgagcc aatttcaaca 120

acaataactt tttactcgga tgtccgattt agtgacgtaa tatatcgtga cgctcaaatt 180
tgaatgttga acctctgagc caattcaaac gacaataact ttgtactcgg atgtctgatt 240
gaatcccgta atatatcgag acgctcgaaa ttgaatgtgg aacctctgag ccaattcaaa 300
cggcaataac tttttactcg gatgtctgat tgagtcctcg atttatatga gacgctcaca 360
attgaatgct tgagctctaa gccaatccat acgacaataa cttctactc ggatgtctga 420

<210> 19364
<211> 258
<212> DNA
<213> Glycine max

<400> 19364

ctctgagctt caacattcaa tttcaagcgt ctcgatatat tacaagactc aatcagacat 60
ccgagtaaaa cgttattgcc gtttgaattg gctctgaggt tcaaaattca atttcgagcg 120
tcgcggtata ttacgggact caatcagaca tccgagtaag aagttattgt cgtttgaatt 180
ggctcatagc ttcaacattc aaattcgagc gtcccgatat attacggcac tgaatccgac 240
atccgagtaa aacgttat 258

<210> 19365
<211> 421
<212> DNA
<213> Glycine max

<400> 19365

tttcgagcgt ctcgatgtat tacgagactc ttcttacatc cgagtaaaaa gttattgtcg 60
tttgaatttg gttagagctt caacattgaa tttcaagcgt cttgatatat tacggaactc 120
aatcagacat ccaagtaaaa agttattgtc gtttgaatta ggtctcagcg tcataattca 180
atttcgagcg tctcaataga ttacgggact gaatcagaca tccgagcaaa acattattgt 240
cgtttgaatt agctcagacc ttcagaattc aatttcgatc gtctcgatat attacgggtc 300
tcaatcagac atctgaggaa aaaagttatt gtcatttgaa tatgctgaga gcttcaacat 360
tcaattttga gcgtctcgat gtattacggg acttaatcag acatctgagt taaaagttat 420
t 421

<210> 19366

<211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19366

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agctttgatt atataatttc ttgattncat aaatacccat ttttctctcc ccctttggca 60
acatcaaaaa ggcacaaatg cgtaaaaatg gaataattta atcatataga aagcataaatt 120
tgtaaaacaa acataaaaaga ttctaaaaca tacataaagc aaaacatgaa taaaacaaaa 180
ttgtaatgca aaccacttag tcatatatca caaaccataa atatcatgtt cagtcatact 240
aagcaaatat taaaagaaat actaagtgtt caaatgtcat aataatatag ccaaatacac 300
gactagaaat caaaatacta ttaataatag taatgtctaa actgatgggtg gtgggtggagg 360
taaatcaatg cagtcgcgaâ tgatgggtgac atcttcttc 399
```

<210> 19367
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19367

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agcttgatgt ggaactngat ctangaagcc acatgtgaca gagataaata cttataactt 60
attcaagtta gtgaaacttg gcggtttgcc aagaatcgga tgtaggttat gtgggttaaga 120
tgaactggta taaacatcat gtgtcttata ctgattttct ctttaaaacta acttaagggtg 180
tgaatttgat ctttgctttt gaaaaaaaact gatccaataa cgctttgtta gatatgaaca 240
aatttgataa atatttataa ctctcagata gagtattaga acggaagact tcattagatg 300
atgaactatt gattctcagc catctctggc aatgaatgaa cagttcaaaa tgcttntctt 360
gcgtattctt gataaagcag tgtgtatata cagatgt 397
```

<210> 19368
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19368

```
tgtaatcgat tacacatata ctggaatcga ttattatttc atattttcan gaaatattct 60
```

caacagccac atctttatat gtggctcttg aatggctatc aaaggcctat atatatgtga 120
 cttgaaacac gaatctgctc agagtgtttc agaacagata ggtcttatcc tcttataaag 180
 cacaatcgtt ttctttctctt acaaattcct tggccaaatt acttgatgatt caataaagaa 240
 ttatttgagt gctcaaaagg ttcaatctat ctctttcaag agagatttct tgttctcttc 300
 ttcttcattc tgaagaggga ttaagagacc gagggctctct tattgtgata ggattctaaa 360
 cac 363

<210> 19369
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19369

agcttgatth anatcttgat gctttggtea tctaataaac tcagcttgcc atgaatcana 60
 agtctacacc tgctgcaaga gtctgtggte tatgttcttc tgcagatcac catatagatc 120
 tctgtccttc tttgcaacaa tctggagtta atgagcaacc tgaagctttt actgcaaaca 180
 tttataatag acctcctcag cagcaaaacc aacaacagca gaataattat gaactctcaa 240
 gcaatagata caatccaggt tggaggaatc acccaaattc gatatggaca agtnctccac 300
 aacaacaaca gcttgtccct cctttctaga atgtgtgtgg tccaagcaag ccataatgttc 360
 ctctccaat ancatagcag cagtcacaac aaagacatca agcaacta 408

<210> 19370
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19370

tatattgcgg anatcatttt ccaagcttag ggcattncatt nagggatttt aatgcttatt 60
 tttaatctga acaatagtth tgtgggggcc aaccactaca aaaaaaatac tttcaacatt 120
 gttattttta catcggtttt tgataaaatc gatgttaaca aatgagcggg gacatttttg 180
 taaataaact gattttgtta aaaaaaacc aatgttaacg tgacaatatt aacatccggt 240
 attaaaaaac cgatgttaac gtaacaatgt taacatcgag ttttgaaaaa tcaatgttaa 300

catcgatcatg ttaacatcga ttttacaaaa atcgatgttg aattttaatg ttgtgtttt 359

<210> 19371
<211> 410
<212> DNA
<213> Glycine max
<400> 19371

tttcttaatg tctcatgatt gtcacgtctt gatgcaacaa tgggtagtca tggccatacg 60
agacattttg cctaacaaag tcaagcttgc cataactcga ctgtgctttt tcttcaatgc 120
catatgtagc aaagactttg atcttgtcaa gttagatgag ctggacaacg aggccactat 180
tatattgtgt cagttgaaga tgtagttttc acctgctttc ttcaacctca tgggtcactt 240
aattgttcat ctggtaagag aaatcaaatg ttatgggcca attcatttgc attggatgta 300
cccggttgag cgatacatga agatcttaac agggatatacc atgaatctac accattcata 360
agcatctatt gtggaaaggt acatcgcaaa agaagtcatt gaattatgtt 410

<210> 19372
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19372

agctngttta taatctcgga atgaagaatc tccatatgcc tgataaagag ggaggaaaac 60
aagataattc atctaagacc tggattaata cgtttgtgtc aaaagtaatc aagggttga 120
atcagaaacc atataagcca accacaacct taaaaattgg cattgctcca atgtaaaacc 180
tgactgcacg tgcataggcc tccgacttga tgcacttgcg tagtctatcg ggtaggatcat 240
atatgaacta ctttcaacaa aggtaaaaag tatgtcaatc atattccact tccacaaaag 300
actcagaagt cataccacta agtcaagtat ggaaacataa atatttcagt gatgcaaagc 360
cggaataaag aaacatgcat gattgcttta ataattaata cctgaac 407

<210> 19373
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19373

agcttcacatc ttgattagtt ttattaaactn tgaaggcatg aataacaata atccctcttg 60
ccaggaaaat caagatctga aattgagata tcacanattc cttgtgaaaa tgaacgtatc 120
tattgggtatc acatcatcctc ttggcctata atactagcta gcttgattcc ttccatattc 180
tgtaagtnrt ttttataaatt ttgggttttg tttttggagc agtgaccatt gtgctacttc 240
atttactgac ctttatcgaa gctgccccaa gtgttccatt gaaatctgcc ttaactgttg 300
caaagaaata cgcaatggaa gtatatcacc cgggtctgaa ctgaagtttc aatatgtgaa 360
tagaggctat gattatatgc atgggtgggtga tcctttacca gtgtcttgtg at 412

<210> 19374
<211> 336
<212> DNA
<213> Glycine max

<400> 19374

agcttttttt tagtcatgtt tgaaaacccat gcaggggtta tgtttgaatt tagcttcagc 60
taagacctca ttagctatca ttacaccatg gaggatatgt ctgcctttga ggaaagcaat 120
ttgcctttca tcaattaagc gaggcagcac aagagccagc ctattagcca ggactttgga 180
cattattttg tagacacacc ctatgagaga gatgggtcta taatcattaa gagattgggg 240
gctattgggt ctggggatga gggctatgaa cgatgcatta cttcctttgg ggaatctgcc 300
attaatgaag aattcatcaa agaatatgat aaaagc 336

<210> 19375
<211> 236
<212> DNA
<213> Glycine max

<400> 19375

tcataaagcc cccactgctc atcttttttt tgtcttgtae tacagataac aaggtctgct 60
gcateccacag aaagttcttc tgcctcaatc cttctcgtca tcttataagt tgaattgata 120
tcctctattg attggcgctc ctgcttgaca aagtgttcaa gcttgtttct tccaagtga 180
tgacctgtaa gcaccattgg tacatttaaa gcacctggaa gaataacagc agtatc 236

<210> 19376
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 19376

tttgcaatct tatgttgcaa atatttacia tagacctcct caacctcagc agcaaaatca 60
 accatagcag aacaattatg acctctccag caacagatat aacctctgat ggaggaatca 120
 ccctaacctc agatgggtcca gccctcagca agagaccaga gcctccattc agagcttaac 180
 caatcagatg ggacaattgg ctaccaatt gaatcaacia cagtcccaaa attctgacia 240
 gctgccttct caagctgtcc aaaatcccaa aaatgtcagt gccatttcat tgaggtcggg 300
 aaagcaatgt caaggacctc aacctgtagc accttctca tctacaaatg aacctgcaa 360
 acttcactct attccagaag aaggtgatga caaaaattta cctaacaatt tc 412

<210> 19377
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19377

tagaaaacta agcttggcag atctatgcca gaatgcaagg ggacatatat ttctcttact 60
 ttgacatgna tnntaagcta gatgacggcg attgtgaaac accaaatatt attacatatg 120
 gggcttttgg ggatggttta tgcaaagcga acaggggtga agaaacccat gaattattgg 180
 ataccatgtc agttaatggt tgtgagccca accaaatagt gtatgatgct cttatagatg 240
 ggtnttgcaa gactggaaag cttgataatg cacaagaggt gtttgtgaag atgtcatagc 300
 gtggatactg tccaatntg tatacctaca gctctctaataaatagtcta tataaagaac 360
 aaaattggat cttgtttgaa agtgttgcca agatgctcga gattcttgca ctccaatgtg 420
 gtattacaca acatgatt 438

<210> 19378
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19378

agcctttggg tgttcctctt ttccctttct cangccctat cattctcaca tactggatnt 60
 taagtcttat tagtgtcttt ttctaggata ctctacaaac cataaaggct ataagtgcct 120
 gtctcctact ggcaaaatat tcatctccaa ggatgtggtg ttcaatgaaa ccaggtttcc 180
 atatactgat ctgttntcta aatccatata ctctctacc ccaacatcct tgtcctcctt 240
 tttagcanac attcccttg ttgggtctcc acttgtcact ccttaccac aactgtacc 300
 caactccct tccctcctc ctcanacttc ccaaactcat gttcttgatt ctggttctga 360
 cattcagtca gtcccaactt ctctattcc tcnaaattcc aaactcctgt tctgattctg 420
 gtcttacact cagtcagttc cacttact 448

<210> 19379
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19379

cgactaatac acttgtaaaa acatagaaag ttagtntatt tatatgtata taccatcaat 60
 tgatatattg gtatatgtta ctcatcaaca acaacaacaa caacaacaac gccttatccc 120
 actatgtggg gtcggttaca tggatcaact tccgccataa tgttctatca agtaccatac 180
 ttctatccaa accattaatt tcgagatcct ttctgataac cctcttata ttacttttgg 240
 gtctatctct gcctcgaata gtctgacttc tatccatctg ggctactctc ctactacag 300
 attctaccgg tcttctctct acatgcccta accacctaag tctaatttcc accatcttct 360
 ctacaatagg cgctact 377

<210> 19380
 <211> 196
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19380

tatctctnta gctattcata tggtcataac gattcactcg gatgtctgat tcaagcgcat 60
 aatatatcga gacgctcgat attgaacaat ggaagctctt gagcaaacc aatggtcata 120
 acttttaact cggaggtacg attcatgcgc ataatatatc gagacgttcg aaattgacaa 180

tggaactctt gaacaa

196

<210> 19381
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19381

tctgttatga atttcgagtg tctcgatata ctacgggaca caatctgaca tccgagtaaa 60
aagttattga catttgaatn tgctcatagc attcgttgct aattacgagc gtctagatat 120
attaaaggat tcattcggac atccgagtaa aaagttatta tcttttttatt ttgctcagag 180
cttctgggtt caatttcgag catctcgata tattacagga ctcaatcgga tatccgagtc 240
aaaagttatt gtcgtttgga attgctacga gtttcgggt tcaattacga gcgtctcaat 300
atgctacggg acacaatccg acatccgagt aaaaagtatt gtcgtgtgaa ttact 355

<210> 19382
<211> 412
<212> DNA
<213> Glycine max

<400> 19382

agcttcagaa ttcattttcg cgcgtctcaa tagattacgg gactcaatca gacatccaat 60
caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatgggtctcg 120
atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt tgaatttgct 180
gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240
gagtaaaaag ttatcgctcg ttgaatttgg tcagagcttc aacattcagt ttagagcgctc 300
tcgatatatt acgggactca atcagacatc cgagtaataa gttattgtcg ttagaaatcc 360
tcagagcttc ggattcaatt tcgagcgtct tgatatatta cgggactcaa tc 412

<210> 19383
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19383

tagcttctca catatagttt caacccgagg tcctctaaga gacttagtgt aaatattagc 60
 caattgatca ttagaaccaa caaagtgagt cttgatttca ccagacaaca ccttntctct 120
 tacaaagtga cagtctatct ctatgtgttt agtccgctca ttgaagactg aattagaagc 180
 aacgtcaaga gcygcttggc tctccanct aagcttagtg acttaagtgt ctccaaactg 240
 taattgtagg agaagttgcc taagccatgt aattttgaat gcagcaactt ccatggcatg 300
 gcatttagct tcgatgctgg gtctagcaac tatattttgc ttcttacttc tgcattgagaa 360
 caaatttccc ttcaagagtc agaggtagac ctcttatctg atggtgatcc tacccaatca 420
 gcatcagagt 430

<210> 19384
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19384

cgaaacaaga tgttgagagt gtntgacaga aatcacattc tcattttgaa gtcccctctt 60
 ttcaaaaata gaacatttaa aattgagatt gatgtgatag aacagaagtg ttttaccact 120
 acagtaaaca gtgaagagtg gttatggcat tacagatntg gccatttana ttttagagat 180
 ctgattaagc taaactcaag agaaatgggtg ctgggnttgc ctcatatcaa gcctnctagt 240
 gaagtatgtg atgggtatatt acagagtaag caatcaagag gcactttcaa acaaaatgta 300
 ccaatcaggg caaaagagaa acttganggt gattactctg atgggtgtgg ccctatgcan 360
 actgaatctc tgggtggaaa tagatacttt catatcctta ttgatgaatt gac 413

<210> 19385
 <211> 470
 <212> DNA
 <213> Glycine max
 <400> 19385

tgccaaaatt caagtagaag agagatatgt tgctcattct attactttgt aattgatctc 60
 aaaacattat aatcaattac actacatatg ttgaactcat tgctctcaag aaacttacag 120
 atgaatcaat tcgtttaaca ccttagaatc atattaataa tgcataaaag aagacttaac 180

ctagaacaat catcatgtta gtctataaca atcaatacaa ataccacatc tattaaactt 240
 gtttgacatt gtaaaattat taaacccaaa ctaagacctt aagacatatc ttcatagttt 300
 tatgcttttg tccaacaata attcttcatt cgaaaatatg ttactactgt ttatattata 360
 aatgttaagc caaaatcatt aataagacca tctaaactca ttatcctttt tcccataactt 420
 ataaratctg tgcctccaaac ctactctcat taaatogtag acttataara 476

<210> 19386
 <211> 321
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19386

agctntcagc catttcaaac gatcataact ttntactcgg atatctgatt gagtcccgtt 60
 atataacgag acgctcgaaa ttgaatattg aagctctgaa ctagttcaaa cgacaataac 120
 tttntactcg gatgtctgat tgagtcocgt aatatatcaa gacgctcgaa attgaatggt 180
 gaccctctga gcatattcaa acgacaataa cttttttctc ggatgtttga ttgtgtcccg 240
 taatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
 actttttact cggatgtctg a 321

<210> 19387
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19387

actcagctta acattcaatt tcgagcgtct cgatatatta cgagactcaa tcttacatct 60
 gagaanaacg ttattgtcgt ttgaatttgc tcagagcttc aacattcaat ttcgagcatc 120
 tcgatatggt acgggactca atcagacatc cgagaaaaaa gttattgtcg tttgaattag 180
 ctcagaagtt caacattcaa tttcgagcgt ctcgatatgt tacgggactc aatcatacat 240
 tcgagaaaaa agttattgtc gtttgaattt gctcagaggt tcaacattca atttcgagcg 300
 tctcgatatg ttacggggct taatcagaca tccgagtaaa aagttattgt cgtttgaatt 360
 ggctcaaaga ttcaacattc aatatcgagc 390

<210> 19388
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 19388

tatctctatg tcttttcttg gatcatgttg aaaaggattg agtgcgaatgc caatggcgga 60
 cttattaaca caaaccagtc caataagagc attatatttt attttgaggt catcaagttt 120
 gatcttcatg cataacaact cactaaactc ctgagccata tctctaaatt ctgctactgc 180
 acttgatctt g 191

<210> 19389
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 19389

agcttctgtt ttcttttttcg agcatcttga tatatgacgg gacacaatcg gacatccgag 60
 caaaaagtta ttgtcatttg aattttgtga gagcttctgt attcattttt tagcatcaag 120
 aattattaaa tgactcaatc agacatccga gtaaatagtt attgtcgttt gaatttgctg 180
 acagcttctg tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg 240
 agtcataagt tatcgctcgtt tgaatctgct cagagctttt attttcaatt tcgagcgtct 300
 cgatatatta tgggactgaa tcggacatcc gagtaaaaag ttatgggtctt ttgaatttgc 360
 ttagagtcac tgggtctcaat ttgggtcgtc tcattatact atacgactca atcggact 418

<210> 19390
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19390

ataagcaa at tcaaatgaca ataactnttg actcggatgt ccgattgagt catttaataa 60
 ttcttgacgc tagaaattga atacagaagc tctcaccaaa tttaa atgac aataactntt 120
 tactcagaag tctgattgtg tcccgttaata tatctagatg ctcaaaattg aaaacagaag 180
 ctctgagcaa attcaaacga caatagcttt tgactcggat atccgattga gtcattta at 240

aattcgagac gctcaaaatt gaatacagaa gctctaagca aattcaaattg acaataactn 300
 ttgactcgaa tgtccgattg agtcattnta taattcgaga cgctcaaaat ngaatgcacg 360
 agctctcacc anatntaaat gacaataact ttttactcag aagtctaatt 410

<210> 19391
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19391

tgccaaccca tggaagctcc taatatctcc cacactnttt gtggtgggcc attcttggat 60
 gaccttgatt ntctcagggt ccacttggac cccatttcta ccaactacaa accctaagga 120
 aactatatta tctacacaaa aagtacactt ctcctatattt gcatagaggg tgtttttcct 180
 acggactgaa agaacttggc tgagatgtcc taagtgatca tctangctcc tactgtacac 240
 taaaatatca tcaaagtaaa caactacaaa tctacctatg aaatccctta agacatgatg 300
 cataagcctc aaaaagggtc ttggtgcatt agtgagtcca aaaggcatca ctaaccattc 360
 atacaaacca aactcggctt tgaaacnggt tttcactcat cac 403

<210> 19392
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19392

agcttgtagc atattcgaac gacaataact atttactctg atgtccgatt gagtcccgta 60
 atatatcgag aactcgttaa ttgaaaacag aagttctgag aaaattcaaa cgacaataac 120
 tttttattcg gatgtccgat tgagtatcgt aatatatcga gacgctcgta attgaaaaca 180
 aaagcttgta gcaaattcga acgacaataa ctttttactc ggatgtccga ttgagtcccg 240
 taatatatcg agacgctagt aattgaaatt agaagctctg agcanattca aacgacaatt 300
 acttgtgact cggatgtccg actgtgtccc gtagtatttc gagacgctcg atattgaaca 360
 ctgaagctct gagaaaaagc aaacgacaat aacattttac tctgatg 407

<210> 19393
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19393

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ttcttcaca gttatctcne tccaaacttg agttttgdaa gacaaactac taagtccttc 60
ctaactgat gatataaacg atggatgtta atgtgttcaa cctacaatg ccacaaccat 120
gaatcatcat ctatcttact caccaagcaa cttagctcat gaaaagatgc atgctcaaca 180
ttcagcatat aaatattacc tattctctta ccaatgtgga caactttacc agatatggct 240
tcacttataa gatagcaatt tctgtcaaac tcaatcttga aacctttatc gcatagtgtga 300
ctaattgtta gaaagttagt ctctagtga tccatatgta gcacattctt tatctgagtt 360
ttgtgttaat tccctataat tccctcccca gtatattttg ctttgttatt gtctccaaac 420
atgacata 428

```

<210> 19394
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 19394

```

tagctcgtag gcttctatctt acaaccatac attggctttg aacaccatga gaaaattcac 60
acaaaaaact gaattagtga gacatggagt tacaagattt gctaccactt tcttaacttt 120
gcaaagattg cataagcaaa aggccaatct tagaaggatg tttacttcag atgaatggtt 180
gaagtctatg gcagctaaag agcccaaggg gaagcaagca acagatgttg ttcttatgcc 240
atcatttttg aatgatgttg tctatgcttt ataggctatg gggcctcttg aagtgtgtcg 300
atgtggtgaa taatgaaaaa aacctgaata tgttcattta tgaacaatgg aatggccaag 360
agcttcaata caatgaaaga tagatatgga ta 392

```

<210> 19395
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19395

ntctccacta agtngcctga tgtctgatat gtcttttctg atggtagtgg tcttagatgc 60
 anggaagaat atctccaaga acaccctctt aaggatcatcc caactaaaaa tagacctgcg 120
 agcaaggtag tatagccaat cttttgtcac tccctccaga gaatgaggaa cagccttttag 180
 aaagatarga tcttcttggc catcangggg ctctatggtg gaacaaacaa tctcgaactc 240
 ctttaagatgc ttatgaagat ctccacctgc aagaccatga aactngggca gcacatgtat 300
 tagtccagtc ttgagaacat atggaacacc ctcatcatga tattgaaagc acaagctttc 360
 ataagtgana tcaagtgcag ccatctccct agagtcctct 400

<210> 19396
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 19396

ccttcacttt cgatattggt tgattctcaa ctagtttatg aactgttag ttcttctcaa 60
 atgcctcctt tcttgtgtgt aacagataaa tccaaagttt ctttgtgaaa tcatcaacta 120
 ttgacatgaa gtatctaact ttcccttttg attatacctt tgaaggccct cacaagtcaa 180
 aatgaatgtc atccattcta ttcttgttgg tgagcattcc agtactgaat attactatgt 240
 gacacttacc atacacacag tgtcacaaaa aaggcttcca atttgtactc tccaactgac 300
 cttgttgctc aattcaacat accattctac taacatgtca gctcatatc cataactttg 360
 cttggcagat attgtctcac actaaactga tctatacat 400

<210> 19397
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19397

agctttgagc atattcaagc aaatatcatc tnttttactc ggatgtctga ttgagtcccg 60
 taatatatcg agacgctcga agtggaaacac cgaatctctg agcatattca aacgacaata 120
 actttgtact cggatgtcag attgagtcca gaaatttgct gāgatgcttg aaattgaaga 180
 ccaaagctct gagcaaattc aaacgacaat aactatttac tcggatgtgt gactgagtcc 240

cgtaatatat cgagacgctc ggaattgatt atcgaagctc tgagcgaatt caaacgacaa 300
 taactgttac tcggatggct gatagagtcc cgtacta 337

<210> 19398
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19398

tctcgacata ttacggggac tcaatcagac attccgaata anaaagtta ttngttgntn 60
 gaaatnttct catagccttc aacatttcaa gttgtgagcc gttttgatat nattacgata 120
 ccctcaatcg gacattccga gtaaaaaagt tattggctcg tgaatttggt cagagcttcn 180
 gcattcaagt ccgagcctct cgatatacta cgggactcaa tcagacctcc gagtaaaagg 240
 ctattgtcgt ttgaatatgc tcaaaacttc gacattctag tccgagcgtc tcgatataatt 300
 acgggactca atcagacatc cgagttaaaa gttattgtcg tttgaatatg cttagagctt 360
 ctgtattcca tttgagcgtc tcgatataatt ac 392

<210> 19399
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19399

ggcatgttta tgcttgtggg attttnntgt gatagtgaat tttggccgga gaaatgttga 60
 gtgaatagat aaaagtacct taccgnngat ttgtattttt tatgaggtga attggtgttt 120
 ttacatttgg agttctatag tagcataggc atttgtgaca ctttttctac ttgtganatg 180
 ccgagtattt gtatgctgca acttcttgca cnatgtcant gctcatttgg ctaagaaaga 240
 ttgtttggag gatacttcta gttgttgcaa taagggaaag cacattagat ctattgttga 300
 tatatagata ctgcacaaag agcttgccaa agaatcccgg tgttctcatg aacgaagtaa 360
 gcatatagat acaacgtatc atttcattag agagtgcatt accaagaaaa gaagtagaat 420
 tgactcatgt gaatactcaa gatc 444

<210> 19400

<211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19400

tatagaataa ataataagag atctatgact attgaageat ctattcatga ttcccttga 60
 gactctaatg ttattcctcc aagaaaggaa attctagatg atattgcaga atcttttagaa 120
 aaaatgcata tttatggaca agattctaaa ggaaaaggga aaggaagcaa tgaagatcct 180
 ccagaagaag ccatatcaaa ttatgaactt ccaagagaat ggaaagcttc aagagatcat 240
 ccccttgaca acattattgg tgatatctca naaggggtaa caactagaca ttctcttaaa 300
 gatntatgca ataatatggc ttttgtgtct atgggtgaac ctaaaaatat aaatgaagcc 360
 ataatatagtg atcattggat agttgctat 389

<210> 19401
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19401

ttagagacct taggcatgca agctntgagt tctatggccc caatgacatc tatccnccac 60
 atggaaaaag gccaaaggtg ttacatgaca ttcagaggat gtggcggaac attgacattg 120
 tccgcgtacg cttgacattt atggcattac cttacatggg cgcagcaatc gctttccata 180
 gtgagctagt aataacctgc tctaaggata ttcttgcca taccatgccc attggcatgt 240
 gtcccanatg ccccccggtg gatttcctta atcatgtagt tcgcctctct ggcattctatg 300
 catcgcatga gggatcatgt gtcgtttcgt ttgtacacga tgggtaccact cacatagaaa 360
 ctagtatcca atctccgtaa cgtgcttttg gcattgtcgg aaatccctgg tggatattct 420
 ttgtttctga catactggct aat 443

<210> 19402
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19402

tctgtccctg agaaactggg tcccagaaga caacagggga gtaatgaatg ctgaataccc 60
 taaccttgca acatgtccct aggaagtaga cacggagatg gacaagaaaa tccgcagtat 120
 tgtgagtagc attnttgaat agacgcctct ntgtgcctga ttgctgagaa aagatgttcc 180
 aacatcttcc aaccaagtg tttctgtgcc tgatgctaag aaagatgttc caacatcccc 240
 cgctccaaat gctgaagccc tcccttcacc cagtgaagag gaatcaacag aagaagagga 300
 tcaagcctca gaggagactc ctgcaccacg ggcaccagaa cctgctccan gtgacctcat 360
 tgacctggaa gaagtcgaat ctgatgaaga accca 395

<210> 19403
 <211> 350
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19403

nttatctggg ggattcactt ttgatcacia ctgtaccata ttgaatatca ttagtcacca 60
 canaaggacc aatccacttt gacctcaact taccactcgt gagtccaagc ctagagttat 120
 acaataaaaac tttctgtcca accacgaagt ccttcttagc gatcaaacta tcaaggaact 180
 tcttgggtctt ctctttagt aatttggaa tctcataggc ttctaaacgg atctcatcta 240
 actcacttag ttggaacttc ctttcctttc cagcttgatc aatagagaag ttgcaggctc 300
 ttacagecca gtaagctttg tgctctatct ctacaggaag atgacatgcc 350

<210> 19404
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19404

agcttgtgca ttcaatatcc tgatgagggt gttccctatg ttctcaagac tggactaata 60
 cattngctgc ccaagtttca tggctcttga ngtgaatatc ctcataagca tcttaaggag 120
 ttccatattg tttgtttcac catgaagccc ccaaagtgtc aggaagatca tatcttttta 180
 aaggcttttc ctcatctctt agagggagtg gcaaaagatt ggctgtatta ccttgctccc 240
 aggtccattt tcagctggga tgaccttcag aggggtgtct tggagaaatt cttccctgca 300

tctangacca ctgccatcag aaaagacatt tcangcatca ngcaacttag tggagagaac 360
 ttgtatgagt actgngaaag attca 385

<210> 19405
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19405

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 gctactcaca ttcttcctct cgattatcat atccttcatt cttacatcat gagtgaacaa 120
 caacaagatc aatcactcaa tgtaoagcagt ccttattact ttcacccggg agaaaatcca 180
 gggatagctn tggtttctcc gggtcttgat tcatccaatt ataattcatg gagttgatct 240
 atgcttattg cattaagcac gaagaacaaa tatgagtttg tcgatgggtc tattcgaaga 300
 cctgcatcag atcatgaact tcatgtagct gggaaggggtg caataatatg gtggcctatg 360
 gttggtcatt tagctctctt tcattagaaa aaataact 397

<210> 19406
 <211> 358
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19406

tccattgtta aatttcgagc gtctcgatat attatatact ctgaatcgga cctctgaggg 60
 aaaagttatg accatttgaa ttgctcaaga gctntcatag ttcaatttct agcgtctcga 120
 tatattatgc gcctgaatca aacctccgag ttaaaagcta tgaccattng aatntctcga 180
 gagcttccgt tgttcaattt cgagcgtctc tatatgtgat gcgcctaaat cggacatccg 240
 aagtaaaagt tatatccatt tgaatttctc aagagcttcc gttgtcaatt taagcgtctc 300
 tatattgatg cgccctaaatc ggacatccga gttaaaagtt atgatcattt gatattcg 358

<210> 19407
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 19407

ctattacaca catactgtaa tcgattacca gaggatgttt tcagagaaca ttctcaacag 60
tcacatctta ttatctgatt cttaagtggc catcaaaggc ttatatatat gtgactagag 120
acacgaattt tataagagtt ttccagaaca ataaggtcta atctctttat aaagaaaaaa 180
cgatttatcc tcttacaaat tcttgggcca aaacactggg gattcaataa ggaattatct 240
gagtgtctaa attgggtcaat ctatctcttt taagagagat tacttctttt cttctctctc 300
attctgaaaa gggattaaga gaccgatggg ctcttgggtg gaaagaattc taaca 355

<210> 19408

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19408

ctaagcttgc cttccttaca agtcctttgc tacctcggtta gccactggat cttctttgat 60
tggaatctcc gctgcctgct taacaaatta aaagagaaat cagtacatgc attacagtat 120
aaaagaattt tcataatgtc attcaatatc aaattataat atactaacct ctgatgctat 180
ttataagaaa taagttgtaa tgtacactaa tagattcaga ggtagtatca taaatttata 240
aatttttata ataattatct tacaaatcat actaacccta atttttaatt gattgattga 300
tactgaccat gtaaagggtt ttcatgattt gatccaatca caatatgcaa tanatnggtt 360
gtcttctatg ataactanta caaaaatcat accaataata atttctaatt gatagaatac 420
aagtatttat agacacaaca tagaagcttt actcaaat 458

<210> 19409

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19409

tnctgaacag attgatcagc tgtttcatat agtctagtct gattgtctcc ttatcatca 60
acatcactgg ccctggcatt caaattctca atttccacct gttcttcacg ttcatgact 120
gtctccaatg agattgcttc tgtcgacaaa aatggagtgt gctgggcatt tttctcccca 180

gaataatcct cataattggc tgcagaacct aaatggtcgg aaccatgata attactttctc 240
aaacatcttc tcattcttga tgaacttttc attaaatcta gcttccagaa aacctattat 300
ataatcaa at gtttagtta tcaaat 326

<210> 19410
<211> 412
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19410

agcttcaaga attaattggc tcatcaaact acttggtccc cgaaggcaat tcaattaata 60
ggcctcccat ttttaattga gtgggttacc actattggaa aaccgcgatg caaatcttca 120
tagaggctat agatttaa ac atttggaag ccatagaaat agggccttat attcccacca 180
tggttgctag aaatacaaca atagaaaagc atagggaaga ttggagtga aaagaaagaa 240
gactagtaca atataactta aaagccaaaa acataattac atctgccctg ngaatggatg 300
aatactntan ggtatcaaac tgtaaaagtg aaaatatatg tgggataccc tacaagtaac 360
acatgaaggc acaacagatg ttaaaagatc taggataaac acattaactc at 412

<210> 19411
<211> 391
<212> DNA
<213> Glycine max
<400> 19411

agcttatgtt gtgattttctc atgtcctcta ccatagtaca atcgaactga agatgcgtct 60
tatattaaat atttgaatct tttattcatt gtaaacctaa ttccaactga atttagattt 120
taaaatttga tatacccccc acattcatca tatattttta catttattaa attttaaaga 180
tattgtaacc ttaatcaatc ttaatatgac tatgtctttt aaattataca ctatgatata 240
tctcattaat aaagaacata gtgcttgatg tatataaatt atttgcatac ttaccttttc 300
aattctaaaa gtgtggtgtc ttgatctat tcatatttac tataatacca tacaatattt 360
acgattaata atcaaaacat ctatgattaa t 391

<210> 19412

<211> 390
 <212> DNA
 <213> Glycine max

<400> 19412

agctttaact taatcaattc aaaagccttt tgtgcttggt cattccaccc aaacgcaccc 60
 tttctcaaac attcgggcat aggacttgcg atagtgctaa aattcttgat aaagcctcga 120
 taaaatgatg caagacaagg aaagatctca cctccgaact gttgtagggc tcggccaagt 180
 cttgatagca tccacttttg tttgatcaac ggatactcca tctttagaca ccacatatcc 240
 aagacacacc acactttcaa ccaagaaatc acactttttc ctctctccat agagttgttg 300
 tgctcttatg gtctcaaata tttgtttcaa atgagtgaat tgcccctcta tagatttgct 360
 atacaccaat gtgtcatcaa gataaacaac 390

<210> 19413
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19413

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 caaagtactc aaaatagatc gtgaccaaga atacctcgct tgtacaaatt tctttgagca 120
 acctggattc aaaatcaact aaccaccaat acacacctca atagaatgga gttgttgaaa 180
 ggaagaacaa aacaatcatg gacatgggtg ggtgcatgct gaatgccaaa caaatgccta 240
 aggagttttg ggtggaagca attgctaccg ctgtctacat tttgagtagg tgcccaacan 300
 aaagtgtgtg tgataagaca ccagagtaag cctggaatgg aaggagacca tcaatcagac 360
 acctcagatt tgttgggtgc atatcataca cacatgtttc aaac 404

<210> 19414
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19414

agctcgcatt ctattacaca agtcttgcaa ttgattacct aaagatatct tcagaaaatt 60

atttccaaga gtcacatctg ttcaaagtgt ttttcatg ccatcaaagg tctatttata 120
 tgtgactagg aacacacccc cgctgacagt ctttttaaga acacaaatgt attatttctc 180
 ttataaagaa aaatcttctt atctctttaa aaattccatg gccaatacac tngcaattca 240
 ataacgaatt ttttgagtgc tcaattgctc aatctatctc tttcaagaga gaattcttct 300
 cctcttcacg ttaattctaa aaagggatta agagaccgac ggtctcttat tctatagaaa 360
 tctgaa 366

<210> 19415
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 19415

atggaagctc ctcatatctc ccacactttg tgggggtgggc cattcttgga tggccttgat 60
 tttctcaagg tccacttgga ccccatctct accaactaca aaccctaaga acactatctt 120
 atctacaccc acagtacaca ctctatattt gcatacaggg tgttcttcct aatgactgaa 180
 agaacttgcc tgagatgtcc taagtgatca tctaagctgc tattgtacac taaaatatca 240
 tcaaaatata caactacaaa tctacctatg aaatcactta tgacatgatg cataaagctc 300
 atacatgagc tctgtgcatt a 321

<210> 19416
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19416

ggctctactc ttttcagaac ttgcatcatc gtagcagttg ccaacacaga aggtagataa 60
 ctcatgaacc tcgaatctgc aatgttgga aacaaaacga aaagcaaatt aaaatctaaa 120
 aacaatatta tgaataagaa aactgacttg catgaaagat gtaacaaaaa tacctccaat 180
 gagggagaga agaacgcctt cagacttagt gaggaactcc cagaagagat gatccttcaa 240
 tccaagtctt ctgtgaagt aatcaagaaa agagagagag gttggagggt tcatcttcca 300
 tccaagagtg ganaggatca aaatctccat cttntaate gtcttggtt cgaacaagta 360
 tctactcttc ttcacctaca caattc 386

<210> 19417
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 19417

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cttcttgcaa ttcttcgggt ccttgaagat atattaacac tttctttgca gctgtccagt 60
gctctattcc tggattactt tgatatctct caagcattcc aaccacaaaa gcaatgtag 120
gtcttgtaga caccgcgcac acataaagct tccttaatga aatgatatgg aatgttcctc 180
atctgctccc tttcaagctc atttttaaga cattgattca tattgaatct atcacctctc 240
acaatagggtg ccatgtttgc tgaacaatct ttaatccgat atctttctag aactttatca 300
atataggcct cttgagacaa gccagaatc ccttgagatc gggtttctatg gatctctatg 360
ccaatgacat atgctgcctc tcccatatca ttcatatcaa aattc 405

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<210> 19418
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19418

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ntgagcaaat tcaaacgaca ataactntng aatcggattt tcgattttgt ctcatagaat 60
atcgagacac tcgtaattga aaacggaagt tctgagaaaa atcaaacgac aataagtttt 120
aactcggatg tcctattgag cctgtttata tatcgagacg ctagtgattg aaaacggaag 180
ctttgacaaa aatcaaacga taataatfff taactcggat gtccgattga gtcccgtaat 240
atatcgagac gtcataatt gaaaactgaa gctcttagca aattcaaacg actataaatt 300
ctgactcgga tgtccgactg tgtcccgtaac gatatagaga tgctcgtaat tgacaacaga 360
aactctgaga aacatcaaac gacaataact ttttaactgg atgtccgatt gaccccttaa 420
tatatcga 428

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<210> 19419
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19419

tgaaggcaaa ctggatgcgt tggtaactt ggtaacctat ctggccttga atcacaaatc 60
tgtacctgtc gcaaggggtt gaggtttgtg ctctctgtct gaccaccata cagacctttg 120
cccttccatg cagcaacctc gagcaattga gcagcctgca gcttatgcag cacatatata 180
caatagacct gctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
cagcaacaca tacaaccttg gatggaggaa ttacctaac ctcatgtgtt ccagccctca 300
gcaacaacaa caacagcctg ctcttctctt ccaaaatgct tctggcccaa gcagaccata 360
cattctctca ccaatccaac aacagcaaca accccagata cagccaacaa gtgagggccc 420
tccacaacct tccctcgaag aacttgtgag gcanatgact atg 463

<210> 19420
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19420

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acaacttccg tttgcccata ggtttgtggg tgacaagtgg ttgaaaataa caatttagtg 120
cccaacttgc tccacaaagt cctccaaaaa tggcttaaga acttagagtc cctatcacta 180
acaatgctcc ttggcaaacc atggagtctc acaatctcct tgaaaaacaa atcagccaca 240
tgggaagcat catcaacttt cttacatgga ataaaatgag ccattntaga aaacctatca 300
acaaccacaa aaatggaatc tctaccattg cttgtttttg gcagccccaa aacaaaatcc 360
atggataaat caatccaagg atacttcgga attggcaatg gagtatacaa tccatgaggc 420
tntaccttag actttgcctt tntacataca atgcaatggt cacaaaa 467

<210> 19421
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19421

acatactgtg taatattatt agtaagaaac atagccttct atatttgata actaaacctt 60

cttctccttt tgcattcgta tacggcatga aatatgttac tcctggaaag tccccacctt 120
ctacttcggc caatccacca tacacaacat cccccaccc aaaatcgact tttccaaaat 180
gataatatat atctcaagtc tgacacaaca tataacacct tacagttgcg aataagcatc 240
gacccctaatt caccattaga tctgccacag aatgcatata ctctccgtc acctaacntt 300
tcactagatt gattccactg cataccctaa tgcatttgcg caaagctatc ctgccccggt 360
gactgctgca cggatatgaa cagcattgcc gtaataacct acgggtaact gatgatagaa 420
ccgtgcacgt gcatcgacta tgca 444

<210> 19422
<211> 382
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19422

ttcttctttt gtttcgtctt cctgcagctc gctgatattt tcacgaagcc tctatctcca 60
gctctctttc aaggtctctg ttccaagctg ggaatgatga acatccattc ctagcttgcg 120
gngggctctc aacaatagct tgttagttag aaaaagctgt tagagttagt tttctttctg 180
gtgtaactaa ctaaccaccc tttttctctt tccttcatat gtgtataaat atcttacgaa 240
ttcagtaata aagacatgca attatttggc catctcacgt acatttgcgt cgtttctctc 300
tcctttatgg ctgttgatcc atttaatat tgttccgctg tttcccctgg acgacgttnt 360
cgagtagaga aatgatgcat tt 382

<210> 19423
<211> 473
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19423

ntgaagcact cacattngt tgaagcaatg gaagaagatc taatgtctat tgagagaaac 60
aagacatgga gtctcacaaa gctaccaaca ggaaagaaag ccatagcagt aaaatgggtc 120
tacaaaacta agttgaatcc tagaggagaa gtaacaaagt tcatagccag actgggtgca 180
aagggatttc tgcagaagca aggtctggat tatgatgaag tatttgcccc tgttgctang 240

ttggaaacag ttagacttgt aatagcaatg gctagctaca attgctggga agtacaccaa 300
atggatgtaa aatctgcatt tcttaatggc tcactagaag aagaagttnt tgtcactcaa 360
ccaccagggt ttgtgatgaa aggtagagaa acagaggtgt acaagctgca taaggccttg 420
tatggctctga aacaggttc cagagcttgg aacaagagaa tagatacctt tct 473

<210> 19424
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19424

agctntaagt taattcaaat gacaataact tttgactcgg atgtccgatt gagtcattta 60
ataattcttg acgctagaaa ttgaatacag aagctctcac canatttaaa tgacaataac 120
tttttactca gaagtctgat tgtgtcccgat aatatactca gatgctcaaa attgaaaaca 180
gaagctctga gcaaattcaa acgacaatag cttttgactc ggatatccga ttgagtcatt 240
taataattcg agacgctcan aattgaatac agaagctcta agcanattca aatgacaata 300
actnttgact cgaatgtccg attgagtcatt tntataattc gagacgctca anattgaatg 360
caggagctct caccannatt aatgacaat aactntntac tcagaagtct aatgggtgtcc 420
tgtaatntat cta 433

<210> 19425
<211> 397
<212> DNA
<213> Glycine max
<400> 19425

ggacctataa aactcaacta tggaacttgc tcttaacaca agtctgttgt tctttgactg 60
ctgacagcta gagacttttc tttcttacgt gcttcgactt gttaaagttc atgttcatga 120
acttaacagt accaattaat tctttaaagg aaattgagtc aagattcttt aaaaccctta 180
gtgttggttac ttgttaattgt ggctccttgt agagcttgta agccttggat cttcttcac 240
aatgaagtcc ttcgcttctt gaagatcaat ggccgcggaa tggagaataa ggaaagggtta 300
ttggagatgc cactttaacg agaagatgag tctcgaacaa gctcaccacc ataggaagtc 360

atgcataaga gcttgaaggt aggagaagat ggggtgga

397

<210> 19426
<211> 456
<212> DNA
<213> Glycine max

<400> 19426

tcttagtttc agatgatgca gatgggcttg tagctacctc atgcactcct ctaatgacta 60
tggcatcatt tctggcgcta aactggtggg agttggaagc catcttctca attaaatttc 120
tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
tctccatatt gctgagtcct tcataaaaaat attggagaag aagctgctct gaaatctgat 240
ggtagggggca actggcacat agttttcttaa atctctccta gtactcatatc aggtctctctc 300
cactaagttg tctaatacct gagatatact tcttgatggc tgtggtcctg gaagcagggga 360
aaattgtttc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcaa 420
ggtaatacaa ccagtccttt gccactccct ctaatg 456

<210> 19427
<211> 407
<212> DNA
<213> Glycine max

<400> 19427

agcttaatgg tgcaatccca atcgaaattg gccaaacttca taagttgtca atactgaatt 60
tgagctggaa ttctctgggt ggatcaattc catttgagat tacaaagttg agcaatatta 120
ctttcctgaa cttgcaaacc aacaatctaa gtggttccat accaacatcc attgacaact 180
tgaaattttct ctttgaactc caactcaggg aaaacaaact aagtgggtgtg ataccaagca 240
tgccgggggag tttgcaggtg tcaactgaatc ttagtagcaa ccactttagt ggtaatactc 300
ccaacaattt tggtaatttg gatagcctgc aagtcttgga tctctcaaat aacaaatttc 360
ctgggtccaat tccaaccaa ctaactggaa tgtcagctct gacatag 407

<210> 19428
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19428

ctaagcttac atcaaccact tgggtactg acctactttt atggtcttga tggggcctat 60
gcaagttgaa agccttggag gaaagaggta tgcctatggt gttgtggatg atttctccag 120
cttaccctg: gtcaccllta tcagagaaaa atcagacacc ttgcaagta tcaagagat 180
gagtctaaga cttcaagag aaaaagactg tgtcatcaag agcatcaga gtgatcatgg 240
cagagagttt gaaaacagca agtttactga attctgcaca tctgaaggca tcactcatga 300
gttctctgca gccattacac cacaacaaaa tggcatagtt ganaggaaca acaggactct 360
gcaagacgct gctanggtca tgcttcatgc caaagaactt ccctataatc tctgggctga 420
agccatgaac acagcatgct acatccacaa cagagtcaca cttagaagag ggact 475

<210> 19429
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19429

tncatcaatt tatctcttat ttcagcctct gttgaagtgt catcttcatt caccaatctg 60
gataggtggt ccgctaccac aatttcagaa cctttcttgc ccttgatgac taaatcaa 120
tcttgaagca gcagtatcca tctgatcaat cgtggcttgg aatcaacttt gcataacaaa 180
tattttattg ctgcgtgatc agagtaaadc actatctttg atcccaccag ataagatcaa 240
aatttctcaa gtgcaaacac aattgtcagt aattctttct caatgggtggc atagttaatc 300
tgagcatcat tcaaaactct gctagcgtaa tagatgcgat gaaacattct gctcttctgc 360
tgccccagca cagcacctac tgcataatca gttgcatcac acatcaattc aaactcttgt 420
cgctagtctg gtgctgtaat cacaag 446

<210> 19430
<211> 329
<212> DNA
<213> Glycine max

<400> 19430

ttcttatctt gatcatctta actcgatgta tggcaagtct ccatgtgggg ttagctgaaa 60

catggatgct atggtggcaa gcacattacc catctgattt tcctctctac gaatgtggtg 120
gaaagagacc tcatcaagaa ctcaatcagt ttcttgatgt acgcctgata gggatatcaac 180
tagagatccc tagtttccca ttctcccctc agctggcgaa ttaccaaggc tgagtctctg 240
tacactataa gcaatatgac attaaagtca attgccactt ggattccgac ggcacatgcc 300
tcatactcag ccataagrat cctccaatc 360

<210> 19431
<211> 393
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19431

tctangcgat ggctctgtaa gaactccact accctagtta gacgtgtggt tcatcagncc 60
aagcatgact actgcctatt caccattaga tcatggaata acttagtcat tctactaatg 120
catatcgatg acatgatcct gtcaggacca aattctagac tagggcaagc tagtgagacc 180
caattcaatc tatgtctcaa ttgaggatcc ttggcactat gaaatattat cttggcttat 240
aattatctaa atgcaacaga ggtatctcac tttcctagag aatatacact ctatctcttt 300
tggaagatac atgtttattg acatgcaaac cgatcaatct atcgatggat cccagactag 360
atacttactg cctgataaat caatcttgat gat 393

<210> 19432
<211> 455
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19432

tggtcataac gtttcactcg gatgtcggat tcaagcgcat aatatatcga gacgctcgaa 60
attgaacaat ggaagctctc gagcaattcc aatggtcata acttttaact cggaggtccg 120
attcaggcgc ataatatctc gagacgttcg aaattgaaca atggaagctc tcgagcaatt 180
caaatgggtca taacttttca ctgggaggtc cgattcaggc acataatata tcgagacgct 240
cgaaattgaa caatggaagc tcttgagcaa ttcanatggc cataactntt cactcggagg 300
tcngattcan ggcgataata tatcgagacg ctcgaaattg aacaatggaa gctcttttagc 360

aattcaaagt gtcataactt ttcactcgga tgtccgattc acgcacataa tatatcgaga 420
 cgctggcaat tgaacaacgg aacgtctcga gaaat 455

<210> 19433
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19433

tagctacacg caccctatnt aaggatagcc tatctatata tataatatat atctgaacat 60
 ttattacaaa aataagggta aattataaaa gataaagaaa gatgacaatt acaaataatt 120
 ttttcataac atataatgta ttatttggca tagcttaact tgaaaataga tctattaaga 180
 caatgaataa aataataaaa ctgtcaagtt gtcaactgat taaagaatag tatattacgt 240
 tacagtaaaa aaatagtata gtatagtagt agctttcaag tttttaacta aaatattata 300
 ttttaataat taatataaac gtattaagtg agtaaattgt cacgcgtatg tttgtacata 360
 ataatatata ttacaaatac atgtgtacca gacgctctta gctggcatat tgatttaata 420
 ttgcatcatc acaagcatag agcataaact agcattatgg ttctctagat gatgt 475

<210> 19434
 <211> 293
 <212> DNA
 <213> Glycine max
 <400> 19434

ctgaagcatc cattatccct agctatcctg gatgggtgca aatactgccc taagtactag 60
 cgaaacaaga agactgacag ggtaacgaag taccacgtct ctcaagagaa ataacaagcg 120
 ttgaagacta aactataaat aaaaacatta tttcattgta caaagcatat ctttcttggc 180
 cttctggcta agatcaagtg tagcatctgt tcttatcagt tgaatatttg atatgtggac 240
 cattggctca cagcatatta aattaatctt ttgaggggga ggggccatta tag 293

<210> 19435
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 19435

atcttcatgt ttaactatgt atggcaaaac ttcattactg gtgttcaaga tatacaagtg 60
agcttgtaac aaatcttcta cacttggagt gatcacctgc agtcctcttg aacccttacc 120
accractctg tcatcatgcc gagactcang aagccaaca ggtrtagcct tctctaagta 180
ttctgaacaa aattcaatgg cttctctgc aagtaccc tcaacaarag atgcttctgg 240
atgatataga ttctttgtat accctnttaa gatcttcatg tctcgtcaa ccgggtacat 300
ccaccgtaga taaacaggac cacaacatctt gatttctctg accagatgca caatcaagtg 360
aatcatgatg tcaaagaaag cagagggaan atacatctnc aactgngcac agttaattgc 420
ggcctcattt tccaactcat canacatgac t 451

<210> 19436

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19436

agcttagatt gacaacaact tttgcacctt caaatgggtct cttttttacc tggaattgaa 60
gtgaaattta cattaaattc atatggaaag cttctattga gaaaatataa aaactaaaca 120
agaaatattt acaatcctac caaaaagaac cataaattgg gagaaatata tacatttttg 180
aaaacttttc tatacaaaag ttagtcataa aagacgacta acagtaaggc aatgaaatgg 240
gaggaggctt gctatataca atttcatagg gagtagcata ngcagaagta tggaagggtg 300
agttgtacca ccatttagct aaagagagct aatgaacca atgatgaggt ctatctaaac 360
acatacaccg aagataagtc tccaaacgcc tcttaacatc ctaagtctgc ccctctgttt 420
gtgggtgata agagg 435

<210> 19437

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19437

tgcaatcgat tacacatata ctgcaatcga ttaccatata atatcttcag acaatatacct 60

caacagtcac atgtttttat gtggttcttc gaatgactat caaaggccta tatatatgtg 120
 actcgagaca tgaatctgct aacagttctt cagaacacaa acgtcttatac ctcttataaa 180
 gcacaatcgt cttattgctc ttacaacatt ccttggccaa attacttgtg atccaataac 240
 gaatttttta gcgctcaaatt tgttcaatct atctctttcc agagagattt cttcttctct 300
 tcttcattct gaaaagggat taagagaccc adgctctctt gttgcgaaag aattctaaac 360
 acanatgaag ggttgcctta tgtgtctaca acttgcaaac gaat 404

<210> 19438
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 19438

tcttaaagag taagagacac tctttatcat tctctctttg tcaaatgtac ttgccgacta 60
 agatgtttgt accataactc atacattgac aatgtttata tttattttat tttactaatc 120
 acattttacaa cagaatgcct tgaattgaaa tttgatatat agaataaaaa cattctttaa 180
 taatagaatt ttaattcaat aaaatgtatt ttggaaatga tatcattaca taagactaaa 240
 attagttaaa atttatttat attttaatct atattgagat cgtttatctt tgctctggaa 300
 ggagtcctat ggaaggaaga tatagaaacg aatttacttt gagattgaag aaatgttgat 360
 tgtgatttga tgctagtaga tattagttca ctgatgtcta gattctattc taagtga 417

<210> 19439
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19439

agcttgccgt cacggagttn tccgactatg ctcttgtgtg gtggaacaag ctaaaaaagg 60
 agagagcaag aaatgaagag ccaatggttg atacatgggc ggagatgaaa atgatcatga 120
 ggaagcggct agttactcaa gggatttgaa atttaagctt caaaaactaa ccaccaagg 180
 caacaatggg gttgaggagt atttcaagga aatggatgtg ctcatgattc aagcaaagat 240
 tgaagaagat gaggaggtaa ctatggctcg atttcttaat ggtttgacta atgatatccg 300
 tgatattgtt gagctgttgg agtttggtga aatgaatgat ttgcttcaca aagcaatcca 360

agataaaca caattaanaa gganaggagt ggctaagagg aagtttacca actttggttc 420
 ttctagtgg aaagac 436

<210> 19440
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19440

ttcttggtta ccccatgttg agtttgctta caataaagct gttcatagca ctactaattg 60
 ttctcctttt gaagttgttt atgtttttta cccactaact tctcttgatc ttttgcctat 120
 gcctaattgtt tctattttta agcatanaga aggtcaagta aaggcggctc atgtgaagaa 180
 gcttcatgag agagtcaaag atcaaattga caggaaaaat aaaagctatg ctaaacaagc 240
 caacaaaggg agaaagaagg ttgtcttcga acctggagat tnggtttggg tgcacatgag 300
 anaagaaagg tttatggaac anagganac atagcttcaa ccaaggggag aatggacat 360
 ttaagtgtt gaaagaatca atgacaatgc ttacaaagtt gagctacca gtgagtata 419

<210> 19441
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19441

gtgtntgctc cgtgccccta ttaaggagc ctaanaggta tagagctaac tangcattta 60
 gtgataaccc ccaaggtagt catatctctc ttgatggctc ctagaggat catccccctt 120
 gaagaacata ttgcagtagt agggactact agcaacaata agttttcaaa gagaaaagct 180
 ctagatgagg gttcactgta atcaagcaag tcggagacct agcatgatca cagattcacc 240
 tccgctcctt atgttcccat gaaccgggt atagggcact ntttccactc acagtgtgtg 300
 caaatagtgt tgggtgttgt gtgcatcana tgaataaata tttacctcat gcatacattn 360
 tanaacgcac tataagcaac aaagagtta tacacacaag cacataagac aaataaaggg 420
 aaaccaacaa aggagaaagt cacgataaaa cattgcacaa gaattaaat 469

<210> 19442
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19442

ccacacacgta aggaatttgc ccagtgccaa actgtcgata tcacctgccc tctctccgta 60
 tcccaatact taatattctt gtcataccca gcactcaaaa acttggcccc atcattgctg 120
 aaacagatat ccctaacggc tntcgagtgt cccatgtaag tctcataca cttgccagag 180
 ttgaaaacat cccacatctt aatcttggta tccatgccag cagagagaat caaatggcca 240
 tacttgggga acaacctaata agcagacacc cctttggtgt gtccactcca agtatgaatc 300
 aatctctcgg gcatataaca atgatcatta ctgcctttg catccttgng aggcgcgatc 360
 caagacctac cttggtaatc cttctcctct tccccatgaa aaagtgcttt atctttaaca 420
 acctcaactn ttctccctec anaaccactc ttctc 455

<210> 19443
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19443

cagcatccaa cttcgcatga gcaccgccta tcaactctana atcgatagat tgatggagtt 60
 cctcaacagt acgttggaaac aatatctcca tgccctttgtg cattccaacc cgtcgagatg 120
 gggaaaattc ctcacgttac agaatggtct tataacaccg ctgttcattc tgccacagga 180
 ctgtcacctt atcaaacagt ttatggtaaa cctcgcccat ccattcccca ttatttgctt 240
 gggctcctcta ctattgaggc tgttgaccaa ttgctttcag agtgacaagc tatgttgcaa 300
 gctctccata agaagctttt caaagctcan actgctgtga aggtgcaagc tgacaaaaaa 360
 cgcattggaag tgtcctatag tattggtgat tgggtttata ttcgtttttt cccctaccat 420
 caaacgtcag tttccaggat gacatata 448

<210> 19444
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19444

gctctttctc ctaagattta atcggattat ttttttgaat ctactctgaa aagctctaaa 60
 cctcatgaca atggaggata tacatggaga ataagatcaa gaacaaggaa ttaaagttaa 120
 ttgacccaac aaaaagatac aggcacaaaa agaacatcac atagacaaag atgctcttga 180
 taccatatga tgtagctcca tgtggagctt gtaggccttg gatcttcttc atcaattgag 240
 tcctttgctt cttgaagatt aatggcagca gaatggagaa ggaagaaaga tgattggaga 300
 tgccacttca aggagaagat gagtcaagaa caagctcacc accatangaa gccatggata 360
 aaagcatgaa ggtaggagaa gatgagtggg gagagaatga gagaagaagc acgacatctt 420
 gtgcctcaca tgaggtctga actntgaaat gtaattctca catgatcaaa gttggaacaa 480
 tgcacacaca acg 493

<210> 19445
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19445

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 cagcctgtcc cttccttcta gaatgctgct ggtccaagca agccatatgt tcctcctcca 120
 atgcagcaac agcagcaatc acaacaaaga caacaaacac ctgaggcccc ttctcaacct 180
 tccttanang anntagtaag gcaaatgacc atccagaata tgcaattcta gcaagagaca 240
 ataacctcca ttcagagtct gaanaatcac atggggcaga tggctactca nttgaaccaa 300
 gctcactccc caaattntga caaattgcct tcacagacta tgcagaaatc gaaaatgtg 359

<210> 19446
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19446

cccatctgac ctactagccc aattaacatc gacactaccc gttgaaagga tatnaggtga 60

tacaccaaag cttccaaaca tggaagcaac catgagaggt gtcctctctt cataacctat 120
 nttcttcgag gcaacacacc ttccatacca aaaccctacc ccatcaatat catgaccctc 180
 cttttcaacc gcatctgtga aactaaccag atcatctgct gcaaaaaact caagcaaagc 240
 tgaaattata tgatgcatcc cttcttttgc atactcctcc atgaccaaac caaattgaga 300
 atctctccct tggaacacccg acatggaaaa ataaatattc cttaaaaactc ggcagatcig 360
 acaatcac 368

<210> 19447
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19447

tgctgcanac atctacaaca gacctcctca acctcatcaa caaatcagc cacaacataa 60
 taattatgac ctctccagca acaggtacaa tcccggatgg aggaatcatc ccaaccttag 120
 atggtcgaat ctttcacaac agcagcaaca acaacaacct tattttcaaa atgctgctgg 180
 cccaagaaca ccatacgttc ctccaccaat ccagcaacaa caaaaacagc aacagcccca 240
 gaaacaaaaa acaattgagg cccctccgca accttccctt gaagatcttg tgaggcaaatt 300
 gactatgcaa aacatgcagt ttccacaaga gaccagagcc tncattcaga gcttaactaa 360
 tcagatggga cagttggcta cacagttaaa tcaacaacag tcttagaatt ctgatagaat 420
 acctttctaa tctgtccaaa atcacanaaa tgtgagtgcg aatacattg 469

<210> 19448
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19448

gcttgccatg ttaaaggaga aagcatcaca tccttttaag gctganntta ttcagttctt 60
 tctcttcatt tatgtgctta agcaacggaa gctgaaccaa tatacctgcg gatattaaca 120
 aaccaagcct cacaataaaa aaaaaggccc aaaacaaaaa agtgtaatcg atattaataa 180
 taacacatgc atgaattgaa aaagcatgtg ttcaggcatg taaagtaatt gaggcacaaa 240

aatgtgaagt taattgataa gtatgatgaa aatcgaaaag agtgtaataa gtgacgaacc 300
atgtacatca nggttaacat tcaactcgtg aacttgtttt attagttcag cttgcgagac 360
ttgttcggga aggtccacat cgaaggattt gattcccaat tcggcgcatg cttttctctt 420
cattcccaag tagctntgtg aatcctttct gttccctact atcacaactg ctagtccc 478

<210> 19449
<211> 459
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19449

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ccttactttg tcttacatgg cacacaccct aactattcat cgctatgtat ctttggttct 120
aaatgttttc cttacacttg ggatgcacga cataacaaat tcgaccctaa aacccttctt 180
tgtgtgtttg ttggatatag tgatatacat aaaggatata aatactttca tccttctagt 240
aagaaatfff ttatctcatg acatgttggt tttgacgagt cattctttca atataaaact 300
aattgtcatc atacaatttc ctctcctaca cagcatgtag ttagcataat tgattcttgg 360
ctacctcata ctaactccag ttcttgtgca gacctaacaa caataacaac agctnntgct 420
tccgttcacc atgctcaaat ctttaatgaa tctcttgct 459

<210> 19450
<211> 475
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19450

tttgaaagca tgtaatcgat acacatgtct tgtaatcgat ttccagtgtt ttggaatgtt 60
ttacaacaac cataaaaaat ttgaatttaa atttcaaagt tatgtaatcg attactagt 120
tttaaattatt caaatttcaa atgcgaagag tcataactct tcagaagtaa ctatgtaatc 180
gattacacca ttatggtaat cgattactag taaggatttt cgaaaataat tccaatagt 240
cacatctttt catttaaatt ttgaatggcc atcaaaggca tatatatatg tgacttgngc 300
acgaaattnt cttagttnta cttgctcaaa aagtcttctc ctctcaaaag attcaaagt 360

tcttatcatc taaaattcct tggccaaaac atttgtgatt caataaggaa ttatttgagt 420
gcttcattgt acaatctatc tctntcaaga gagatntctt cttctcttct totta 475

<210> 19451
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19451

tctatagaag gttcattcct aatttctcta caattgcttc acctcttaac gagctggtga 60
agaagaatgt ggcatttacc ttgggtgaaa aacaagagca agcctttgct ttgctcaaag 120
aaaagcttac taaggcacct gttctagctc ttccttgagt ttctaaaact tttgaactag 180
aatgtgatgc ctctggagtt ggagttggag ttgtattgta acaagggtga caccctatta 240
cttatttttag tgaaaaactt catggtgccca cctcaacca cccacatat gataaaatgc 300
tttatgcctt aataagagcc atccaaactt gggaacatta cctttgttcc aaggaattnt 360
gtattcatag tgatcatcaa tcaactaagt a 391

<210> 19452
<211> 491
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19452

tcaagcttag ctacacacca cctctcata actaagctca cttttttgag aagccncctt 60
atgaagattc ctaaagtagc ttgagcttag ctacacatac ctctctaata gctaagctca 120
cctccttgag atgagaagct agagcttagc tacacacccc ctataatagc taagctcacc 180
cccatgacaa anaacatgaa aatacaaaaa aaagtcctta ctacaaagac tacttaaaat 240
gccccgaaat acaaggctaa aacctatac tactagaatg gccaaaatac aaggcccana 300
cgaaggaaat acctattcta atatttacia agataagcgg gctcactatt agcccatagg 360
ctcgaaatct accctaaggc tcatgagaac cctaggacct tcccttgat ctctagccca 420
atctacttgg agtcttctac ccaatgcctt tgcggagtag gattgcatca ctctctttcg 480
tagcttctat g 491

<210> 19453
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19453

agcttctaaa ctntgtacaa gaatgaagct ctgataccac ttgttagaca agtgggtctca 60
 gatattcttaa gaaggcgggg gttgaattaa gatattcgaa actatgtctt ctaattaaaa 120
 atctatctta ctttctactt aagttatgaa ttcccttaga gacaatcttc ttaaataatta 180
 attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
 aagagaaaat gcaaactcag ttgtatactg gttcggccac acccttgtgc ctacgtccag 300
 tccccaagca acccgcttga gagttccact aacttgtaaa ttccttttac aagttctaaa 360
 cacacaaggg acaacccttc tttgtgttag agatttctac aacaagagac tcacagtctc 420
 ttaatccctt agagaatgag aagaagaaga ggaacaaatc tctcttgaaa gagatg 476

<210> 19454
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19454

tgaccaattc anatgaacga ggaactcctt caatactgtt aaaaggaaat tcttgatttg 60
 cttgataaag gtttaatccg gaaaagcaaa agcccgtggt cctgtgcggc tttttatgtc 120
 aacaaacatt ctgagcttga gcgtggaaca ccccgtttag tcataaatta caaaccactg 180
 aaccaagcat tacaatgaat tatgtaccct attccaagca aaaaggattt acttaacaga 240
 ttaaattctg caaagatatt ttctaaattt gacatgaaat ctggattttg gcaatccaaa 300
 tccaagagtc agataggtag aaaacagtgt ttattgtact tttcgggcaa tacgaatgga 360
 atgtgatgcc attcggacta aagaatgccc cttcagagtt tcanacaatt atgaatgata 420
 tttntaatcc ctattcacia tttgtcattg tctacataga tgatgtgtta atcttttccc 480
 acaacattga 490

<210> 19455

<211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19455

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actaagcttt agcccttana cgaaatttca ttactcggga tgttgattga ttccataata 60
tatcgagacg ctcgaaattg aatgttgatg ctctgagcaa attcaaacga caataaatct 120
ttactcggat gtctgattca gtcccgtcac atatctagat gctcgaaatt gaatgttgat 180
gctctgagaa aattcaaacg acaatatctt ttactcgcga tgtctgattc agtcccatca 240
catatcgaga tgctcgaaat tgaatgttga agctctcagc caattcaaac gacaataact 300
ttctaactcg atgtctgatt gagttccgta atatatcaag acgctcgaaa ttgaatgttg 360
atgctctgag canattcaaa cgacaataac atcttactcg gatgattgat tgagtcccg 420
attatatcga gacgctcgac natgaatgtt gatgctctga 460
```

<210> 19456
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19456

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tgatcaaccc actntgttat gacatcgatg cagggtttcc agtcatgttt gaggttggtt 60
acattggcat ggagagcctc ttgaacatct ttctatttaa gatatgcgta cacataattc 120
tcactacatg gatcagtcac aatctgcaaa acaaataaac atggcttcaa ttctagttaa 180
gttcatgctt catgcaatgt tgagttttct aaaatctatt aggccagcca aatatttgaa 240
gcttactgtg ttctttttgg gcagggtgtg gagatttgca ttcttgcata gtggagcata 300
aatattgtat aaatcaatgt attcaatctc ctccccaggt tcatctccgg ctgcatcgca 360
cacactntcc tgaatctttg atgatgatga atcacaagct ntgttgagat aagctgctnt 420
gtctgagatg attgcatggc tggcaagata atcatacagt ccgtccgagt ca 472
```

<210> 19457
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19457

ntgatggtgt tgagaagaaa tcacatgttt gtcacatca aaaagggga ttttgtgaat 60
gtatgtatac atgattntga tgatgtcaaa agaagaatca aacaaggctc attntgcttc 120
aagattaata caagattgtt tcaacaaaca aagccttgat tcaagatttc ttcaagatca 180
agccttgect cacaatgaaa ggtttcaagt cattcaaggc acatgtaatc gattaccaat 240
acatgtaatc gattaccaat ggtttgaaag tgtgtaatcg attacacatc atatgtaatc 300
gattaccaga gactctgaac attnggaatt caaatntaa atgaagggtc acaactgttc 360
aagaaaaaca attgtgtaat cgattacact aattctgtaa tcgattacca gagaggattn 420
tcaaggaata tcgtcaacag tcacatctta tcat 454

<210> 19458
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19458

tgatgactat ggtgtgttgt gggacttctc caccaatgta gatctttaat tnttggccct 60
tacctaacta gccacgatct ttggatttgt cttctatctt tatagctcca tagggcttaa 120
cgtctttaat agtaaggggg ccaactcttc tcaattgtaa ttntcgagaa acaacttta 180
tcttgagttg tagagcaata cttgttgtcc aggcctaaat tctttgagga ggatattttt 240
ttcataatac ctcttggttc tttctttgta gagcttgat gattcgtatg ccttgagtca 300
aagttgagaa acttcatggc tcaatgagct tttatttcta ataccactgg taggtggcat 360
tctttnttgt acaccatttg aaatangga aggccaatgg gtgttttgaa ggttgttcta 420
tatgctcaaa ggcaatcatc aa 442

<210> 19459
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19459

gggatattnt nntgaaaatg gttatacaaa aacgatttgt tntantaaga gatgaaagtc 60

aatttanaaa aaaacagaat taaaaacact attaatcctt aaaatttcaa tttgataagc 120
aaattttattg tctgaacaag tttgaattaa catttttctat ttgaaaactt atactcaaaa 180
tattcttact gagattttga aaatataaat ttatttataa tgttataaaa aaaattaaaa 240
ttgatctatc aaatgtaatt atgagatgat tttcctatat tttaaattaa tataaatatc 300
atgcacactr tttattgagt atatgtataa agtaattgac actctatgac aatgtgatct 360
ttnttacatt gtttgtgtat tttaaattaa tntacatatg taatataatt aaacattcta 420
caataatnta taataataaaa tacttaagaa tgcattaata ctaattaagt tag 473

<210> 19460
<211> 375
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19460

tatgactcgg tcaattgaga attcttgatt tacatgtttg gaagattgag attcaatgag 60
atatgggtca aatggattaa ggggtgcttg atgtctacta nggtatcaat ctttgттаат 120
ggaagcccaa tgttgaatt tatggtatca aaaggattga gacaaggaga tccttttagat 180
cccttcttgt tcaatgtggt tgtggaagge ttatgtgggt tgatgaggaa agcattagac 240
aaaaaattag attctagttt caatgtgggg aacaaaggag tgaagataaa tatccttcaa 300
taggaggaca acacaatctt catgggagag gctaccttgg ataatgtcct aaccatcaaa 360
agcattctnt gatgc 375

<210> 19461
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19461

tgctaaccce tggaagctcc taatatctct tacacttttt cgggtgggcc attcttggat 60
ggccttgatt ttctcatttc taccaactac aaaacctaag aaaactatat tatctacaca 120
aaaggtagac ttctctatat ttgcatagag ggtgtttttc ctaaggactg aaagaacttg 180
cctgagatgt cctaagtgat catctangct cctactgtac actaaaatat catcaaaata 240

aacaactaca aatctacctt agatccctta agacatggtg cataagcctc ataaaggtgc 300
 ttggtgcatt agtgagccca aaaggcatcc ctagccattc atacaaacca nacttggtct 360
 tgaaagcggg tntctactca tcaccctttt tcatcctgat ttggtgataa ccacttttaa 420
 gatcaatttt tgaaaagata tntgcaccat gcaacccatc aa 462

<210> 19462
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19462

attcttttga cattgttcaa gttcctcttg catggctgat gtttcctcta tggaggggac 60
 gcatcactag aaacacggct aggagactct tgaaagatta gactagggat gcagaagaag 120
 gccttagggg tctcatgagc cttaggatag attctgggcc catggactaa gtatgagcct 180
 acttatcttt gtacaaatta gattatgggg tattgctagg ggcaccagc aacattactg 240
 gtgcacccaa caattnttta gaattcccaa aatacccatc accgtatttt tttctacaaa 300
 aagttggttt atttcattnt tgtttacatt gttgctttct ttgtttctcc atggtagtgc 360
 tgtgcggtat ttggagcttt gagagagttt anggtgttgt tcgcaatcgg caagtgtacc 420
 agatcgaca agtagtataa aatggtaaga atcagagtatc gaactctcgg ngaacttg 478

<210> 19463
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19463

tcctcttgaa cccttaccac ccactctgtc atcatgccga tacttaagaa ggccaacagg 60
 tttagccttc tcaatgtatt ctgaacaaaa ttcaatggct tcttctgcaa tgtacctctc 120
 aacaatagat gcttctggat gatatagatt ctttgtatac ctttttaaga tcttcatgta 180
 tcgctcanac ggttacatcc accgcanata aacaggacca caacatttga tttgtgtgac 240
 cagatgcata atcaagtga tcatgatgtc aaagaaagca gggggaaaat acatctctaa 300
 ctggcacagt ataattgcgg cctcattntc caactcatca aacttgacag gatcaacgac 360

tntgctacat atggcatgga agaaaaagca caggcgagtt atggctaacc tgacttttgt 420

tggcaagatg tctcgtataa ccacggctaa caattggtgc atgagcatgt ggtaatc 477

<210> 19464

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19464

tganattgac aacggaagct gtcgaganat tcanatgttc ataactntng tcaagaaggt 60

cagattcagg cacataatat atcgagacgc tngaaattaa ataacggaag ctgtcgagaa 120

attcaaatgc tcattacttt tcaactcggag gtccgagtca ggcgcataat atatcgagat 180

gctcgaaatt gaacaacgga agctctcgag aaattcaaat ggtcataact tttgacacgg 240

aggtcagctt caggcgcata atatattgag acgctcgaaa ttgaacaaca gaagctctcg 300

agaaattcaa atggtcataa cttttgaccc gaaagtcaga ttcaggcgca taatatatcg 360

agacgctcga aattgagcaa cggaagctct cgagaaattc acatagccat aactnttcac 420

tcggatgtca gattcaagcg cataatatat c 451

<210> 19465

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19465

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ccctgtcaga tacaatacta gaaggaattc catgcaacct tattacttcc ttgatgtaca 120

actccactag cttctccatt ctatacttca tattcactgg gataaaatga gcagatttgg 180

tgagtcgac tactataacc cacacagcat catgtccacg actagtcttg ggtaaactag 240

atacaaaatc catagatatg ctctcccatt tccattctgg aatttccaat ggcttcaatt 300

ctcttgatgg tcgctggtgc tcaaccttag ccttttgaca tgtcaaacat cttgctacat 360

attcagctac atctttcttc atgccatgcc accaaaaact tctcttcaaa tcttggacat 420

cttagtcatt cctggatgga aact 444

<210> 19466
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19466

agctttgcat attatcaata aaattgatat gctatcttca aatcacaaac atccaattgt 60
 gctacatctc tagttgtcat tgcattgaatg tcaaactttc taatattaac aagatgattt 120
 atacttatag catctttctgc ataaaaacca ccacttcttc cacatctaata actatcaaaa 180
 tcataatcct cttccacctt atactcaatc gactttctcat cttccttatt gtcattgtca 240
 tcactttcaa ctntatcctc tccatctttna tgcataaata cattaccata cgcattcacc 300
 aacacataaa acgaagctcc caaatcgccg aataaccctt ctctactat tatgnccttc 360
 aaaccctaca aaataacaca tttcaaaaca taaataaata catagc 406

<210> 19467
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 19467

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 tgattaggta tccctgatgt tttcaatgag tttagaaatt tacgtgtcag taatccgaaa 120
 gtaggattga gtagttcatc ttatttatca atgttatcag tgctacaata ctctttttcg 180
 tcattgggta tcaatgataa gacaataatt tattttgtca acaatatctt ttttagaggc 240
 aagaacaact cttttttgca agtaatctgc gttgctatag ttatgtgtca agttgggata 300
 tgttgcatca acaattgcct ggataggatc agtatagtc tttataagga actcatctgg 360
 gatg 364

<210> 19468
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19468

ctaagcttaa catcagacca cttccagggg gctggaacta cttttatgga cttgatggng 60
 cccatgcaag ttgaaagcct tggaggaaag aggtatgcct atgttggtgt ggatgatttc 120
 tccagattta cctgggtcaa ctttatcaga gagaaatcag acacctttga agtattcaaa 180
 gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat tangagtgc 240
 catggcagag agtttgaana cagtaagttt actaaattct gcacatctga aggcacact 300
 catgagttct ctgcagccat tacaccacaa caaatggca tagttgaaag gaaaaacagg 360
 actttgcagg aagctgctan ggtcatgctt catgccanag aacttccta taatctctgg 420
 gctgaagcca tgaacacagc atgctatatn cacaacagag tcacac 466

<210> 19469
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19469

actcagcttt atcctggctt ctatgggtgt gagcttgtct ttactctctt tttcttgaag 60
 cgacgtctcc aatcatcttt cttcttatcc attccactga cattgatctt caagaagaaa 120
 aggactccat tgatgaagaa gatccacggc ctacaagctc cacatggagc tacatcataa 180
 aaagctatgt cttaagctca tgtgctactt catcgccatc cgatacctaa agtagtgaaa 240
 cccctttgtg acaacaaaat atgcttttgt tgagaataat tgttgaggag ttagccctca 300
 cagtaatgga taaccacaaa ttggtacttg cgagatgac ttaagggtgt ataaccttg 360
 agggagcgac tntaagtcac gacgatagtt cacatagatg acttggtaac cctgacaaat 420
 atataagcca tcctcagatg gtgagagccg tca 453

<210> 19470
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19470

agctntacct tagtttctgt gcttacagaa naataaaata attcctatgg ttggaggatt 60
 gtgaaatgac atttagaaag ttaaaggagt ttctttccac tcctcctatc ttgacaaagc 120

ccaagtcagg gttgcccatt ataaaatact tgtcggctct cgagcatgtc gtcagctcag 180
 ttctagtaca ggaatttggg gttgaataaa agccaaatta ttttgtgaac cgggtgcctt 240
 ttggtttcga gattaggtat caaagttaga gaaattggca ttggcagtag ggtacacagc 300
 tagaaagtta aagcattatt ttcatagtta cccaattata atttgaacca attaatctat 360
 caaaacaaat tntacagaaa caggatcttg ttgatcagat gatgaagtgg ttgttgaact 420
 ctcagagttt ggtatatcgt ttgaaa 446

<210> 19471
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 19471

agcttggagc cgggtcaaat gccacagtag ctgtaatgag ctatagtggg tatgatatac 60
 aagatgccat tgcgatgaac aaggcatctc ttgatcgttg gtctgcgcc tgtattgtta 120
 tgaacaagca tgtcatttta ttccggcgatt ttatgctttt ggttgcctta tattttattg 180
 tctacgcttt ttaacgcagc atttctgac ttgaccttcc ctgctgtata ggtataatgc 240
 catcatctac aaccattcga atgacacatc ataccgaata cttacgccta atacaact 298

<210> 19472
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19472

ntggcacaca gctaattcatt accttcttca tggaattatg gtaaacacag ttctatcaca 60
 caataaaaaa agtgtcatat aacctgctta ccgtctctct tgatttttgt cgaagaccat 120
 gccatttttg aattgcatgt gcactctcta cataagctgc atttgttcca gtaccaacaa 180
 tcaactccagc aacaacatcc tgattgctga atcttgctct agctactgtt ccgactgtgt 240
 cattaaccta natcacatca ccaagttntg tctctgggtc aagacattaa gtaaccagga 300
 aatttaaaag aaaaaaatt gaaactacaa aactcattga tctaaattnt ccgcatata 360
 gaaactgaan natattctca nagccagact anaggggaaa aagaaaacaa gacaaacagg 420

aagagaagta cactgact

438

<210> 19473
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19473

ggacctataa aactcagctt aagaaaaaat ggccctcagca agcttttatn ttttaaagtt 60
attcaacaaa ggccctccatc tttatggaga ggggtaccact actggaaaac ccaaattgcaa 120
atTTTTatcg aggcaataga cttacatatt tgggaagcca tagaaatagg gccttatata 180
cccaccacag tagacagaat tacaatagat ggaagcacat caagtgaaag cataacaata 240
caaaaaccta ctgatagatg gtctgaagag gataaaagat gagtacaata caatttaaaa 300
gccaaaagta taattacatc tgccctggga atggatgaat atttcacggt ttcaaattgt 360
aagagtgccta aggaaatgtg ggacactcta caattaacac atgaaggaac aatagatgtt 420
aaaagatcta cgataaacac attaactcat 450

<210> 19474
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19474

ggacctataa aactcagctt tacttggtga ttgtgaagtt ttgaaaaatt atttctgcct 60
atgccgagta taacattttc tgtttataac ttattgatgt attaattgca ttgatcatca 120
ctgaaaaatg ttagattttg gtgtctcatt tcttgttttt ataatgattg ccaggatcac 180
tattttgatg tgataaccaa catagttggt ttggttgctg ctgtcctacg tgataaattt 240
acttggtgga ttgaccctat tggcgctatt ttgcttgcac tctacacaat ttcaaattgg 300
tctaaaacag tgcttgaaaa tgctaggtct ctctttctct cttcttattc tgcgctcttat 360
gctttgttca attacgtact ctatttaaat gatggttacc tcttggnnta gtttccttgg 420
ttggacaatc agctccacct gaagtc 446

<210> 19475

<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19475

tgatattgaa agagaanttg ttctacattc tatatttatt gnttlyctca tcaacttcaa 60
tgagttcttg ttacattggc aaaaaaacat gttcaaatg catataatgt tattcaattt 120
agttgctaatt ttgtctaata ttgttggagc atcatgtaag cactgngata tttttcgaaa 180
aagtcaaatt acaatagtga aagaagcatt gcaaaaagga gaaatctcaa gtgagcatga 240
cttgaatcaa gagagcagga aacactaaat gaagctcaca ttatggtaca ttacttagtt 300
tagtttctct tttttcttcc atgattgatg tgcttgaaat aattgaagaa gatgacataa 360
gtttagagca naaggctaaa atatgtgctt tngtaaattc tgtgcaagct tttgaatntg 420
ttttcatctt gcacttgatg aaaaatattc t 451

<210> 19476
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19476

tattggaat gaatcatatc tcattctctg ttttcatgcc ttggatttta tntgtaaatg 60
aattaagcag cttgttgaat aatgagtctg ttatttactt catattaatt ttacgtgtca 120
tttgctgcag actgattggg aggggtggcta cttcccgtt acgtgcact ttagtgaaga 180
ctaccaagc aagcctcaa agtgtaaatt cccacaaggt ttcttccacc ctaatgttta 240
tccttctggg actgtttgct tgtctatact taatgaggat agtgtaagta catctctctt 300
gataattgca tgactgcttg aaaccaatnt attttttgat atattacatg ctaagcaaac 360
agttaagaat tataggttta ttgttctata caggggtgga gaccagccat aacagttaag 420
canattcttg tgggcatcca agacttactt g 451

<210> 19477
<211> 392
<212> DNA
<213> Glycine max

<400> 19477

taacttttat tccataacga aattcaataa atacgcctcc tacccttaat ggagaaagtt 60
accactactg ggaacaccga atgcaaatct tcattgaggc aatagactta cacacttgcg 120
aagccataac agtaggacct tatgtaccca ccatgggtggc tggaaatgca acaatagaaa 180
aacctagaga agagtggact aaagatgaac gactattagt gcagtacaat ttaaaggcta 240
aaaacatcat tactttctacc ctacgacatg atgaatactt tacggtttca cattgtaaga 300
atgataagga tatgtgggac actctacaag ctacacatga cggaacaact gatgtcaaac 360
gatctacgat aaatacttta actcatgagt at 392

<210> 19478

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19478

tctttgagaa aacttccttg agaagctaga gcttagttac acacaccctc ctcataacaa 60
agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctat 120
acatacctct ctaatagcta agctcacctc cttgagatga gaagctagaa cttagctaca 180
cacccttat aatagctaag ctcaccccca tgacaaanaa catgaaaata caaaaaaaaa 240
gtccttacta caaagactac tcanaatgcc ccgaaataca aggctaaaac cctatactac 300
tagaatggcc aaaatacaag gcccanacga agganaaacc tattctaata ttacaaaaga 360
taagcgggct catacttagc ccatgggctc gaaatctacc ctaaagctca tgagaacnct 420
agggcctacn cttggatctc ta 442

<210> 19479

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19479

tgtagcaaat tcaaaccoca ttaaatttta actcagatgt acgattaagt cccgcaatat 60
aacgagacgc ttgatattga aaacaaaagc tctgagcaaa ttctaacgac aaanatgttt 120

tcctcggatg tctgattcag tcccgtataa aatcgagccg ctcgtaattg aaaactgaag 180
 ctccgagaaa attaaaatga caataacttt ttactcggat gtccgatagt gtcccgtagt 240
 atatcgtgaa actcgacatt gaaaacagaa gctntgagca aattcaaacg acaataactn 300
 ttactccga tgtccgattg tgtcccgtag tacatcgaga ctctcgtaat tganaacaga 360
 agctcgtaga gaattcaaac gacaataact ntttactcag atgtccgatt atgtcccgtg 420
 gtatatccat acgctc 436

<210> 19480
 <211> 454
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19480

ttgatatgga aattaagttg aaagtaaagg atggatatgta taggacatca atcaatgtaa 60
 tgaatgcaga aagctgtact gtgcctgagt gggtagcatg aacaaggtgg ccatttggtg 120
 atctaaccgt gatgggggta atttgatgat atgagtgaag gtttggttaag gaggaggaaa 180
 cgtgatcagt ggctcctgaa tctaatatcc aggaggtaga gtttgctttt tcgtaagata 240
 ggggttatacc tgttgcatcg ttactagagc aagatgaaat ggaagcgacc tgaggcttgg 300
 tggatgctga gtttcctgca tatggctggt gtattaaagc cagcaatgcc ttgtactgct 360
 cangtgaana acgaaccaat tcttgagatt cttggcgctg tatttggtca tctgtggcct 420
 ttccttctac ttgccactac gttgtagcta ttac 454

<210> 19481
 <211> 357
 <212> DNA
 <213> Glycine max

 <400> 19481

agcttataat atatcgatac gctcgtaatt aaacatcgga aactcttgag aaattcaa 60
 ggtcttaact cttcacacgg atgttcgatt ctggcgcata atatgtcgag aggctcgaaa 120
 ttgaacaacg gaagctcttg agaaattcaa atggtcataa cttttcacac ggatgttaga 180
 ttaaggcgca ttacatatag agacactcga taatgaacaa cggaagctct tacgaaatta 240
 aaatggtaat aacttttcac actgaggtcc gattcatgct tataatatat tgatacgctc 300

gaaactaaca tcggaagctc tccagacatt caaatgggtca taaatcttca cacggat 357

<210> 19482
<211> 453
<212> DNA
<213> Glycine max

<400> 19482

tgaatcggac acccgtgtga aaagttatga accatttggt atttcacgtt atgctttggt 60
gttcaatttc gagtgtcact atatgtgatg cgccaaaatt ggacattcga gttaaatggt 120
atgaccattt gaattactca agtgcttccg ttgttcaatt ctgagcgtgt cgttatgtga 180
ttctcctgaa tcggacatcc gtgtgaaaat ttatgaccat ttgaatttct caagagcttt 240
tgatgttcaa tttcgagcct ctcgacatat tatgcgcccg aataagacat ccgtgtgaaa 300
agttatgacc attttaattt ctcgagagct ttcgatgttt aatttcgagc gtatcaatat 360
attataaggc tgaatcggac ctccggtgtga aaagctatga ccatcttaat ttcatgagag 420
cttccatggt tcattttcga gcgtctctat atg 453

<210> 19483
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19483

actaagctaa caggccctta taggctgaaa caagcaccaa ggtagtgggt tgaccgacta 60
anaattactt tgattcagtt tgggtttcaa gctagcaagt gtgatccatc cttgttcata 120
tataagcgtc aagctcacac tatttttctt ctagtatatg tggatgatat tatcttcacc 180
gacagctcat cttctctcat ccaacagatt acaactcaac ttcattttgc attctctctt 240
anacagctag gtcaattgga ctatttcttg ggtattgaga tcaagtatct acttgatagg 300
tctctttctc tgactcanag caagtacatt agagacctcc ttcacaggac tcacatggct 360
gaagttcatt ctatttcttc tcctatgacc tcttcttgca aactgtctan aactgggtgg 420
gaattatttc angatcctac tctctacaga tct 453

<210> 19484

<211> 257
<212> DNA
<213> Glycine max

<400> 19484

tagctgttct tcatggttgg catttgcgc aacctaacgt aaaaaatgct cttctccacc 60
gtgagcttaa tgaggaggta tacaagcaac ttccttcacg gctctgggtt gataatcctt 120
accaggtatg cacgctgcaa cgttccttat acggtctcac acaagctacc cgacaatggt 180
tcactcgtct ctacttattt attgtttctc atggctatca caaagcctcc gctgatcatt 240
ccctcttctt aagcttc 257

<210> 19485
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19485

tttgttntca atttcgacca tctcgatata ttaccgttct catccggact tccgtgtata 60
aacttattgt caattcaatt ttctccgagc tttggatcaa aattttgagc gtattgatat 120
attacgggac tcattcagac atccgagtaa aaaattattg tcgttagaat ttgatacgag 180
cttccgtttt caatttggag catctctcgc taaattgcca cagtctgtcg ggcaccaag 240
aaaaaattta ttgtcgtttc atattttctaa gagtttccgt tttcaatttg gagtgtctcg 300
atatattacg ggactcaacc ggacatccgt gtataaagtt attgtcattt caatttgctc 360
agagcttcta gtctcaatat tgagcgtctc aatatattac ccgattcaat cggacatgcg 420
agtaaaaagt tattgt 436

<210> 19486
<211> 282
<212> DNA
<213> Glycine max

<400> 19486

tcacgcttat actaatttat cctaccatgc tcagactgac cggcggactg aacggaccat 60
tcacccgctg gacgacctt tgagggcacg tgtcttaaag cacaagggca gtcggcacag 120
tcttttgacg ttgatagagt ccacttataa cagtagctct ccctctacca ttagcatggc 180

tccttatgaa gctctgcatg gtacaacgtg ttgcacaccc ctatgtctgc tatagcccgg 240
agaagacact caccacgcc ctgcactggg gcatcaccac ac 282

<210> 19487
<211> 364
<212> DNA
<213> Glycine max

<400> 19487

agtgcacaat atcatctcta atatttctat gaagagtttt tattttaaaa tccttgctta 60
gcaacattca cttttttgcc cgaactagca cagaatatgc ctagtattta cttaatagca 120
tcaatctgct ctaagtttgt tcctgcacaa catagaaaat catttgcaaa ggcaaggtaa 180
gaattttttg gaccaccttt agatgattca ataggcttcc aaattttctg ctccactaca 240
tcattaatca attgaaataa tctctcaatg caaagaacaa atagatatac agagatagga 300
tcctctatca cactcctcta acatgaatga atttttcaag agcttctcca ttccacatca 360
cctg 364

<210> 19488
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19488

ctataaaact cagcttntat agctttgtta acctatcatt taattataat ttttattaat 60
gcaatcaatc taaagcaaaa gaaaaaaaaat gcaatcaatc gtttcacaaa ttcttaatag 120
aaattttaat caattgtcaa gctattttaag caactatcta ttattaaaca catatattaa 180
atattataac atatatannt ttgcatatct aaacggtggg ttatcttggt taattttcaa 240
acctgatatc agtgtaaaaa atttctaatt attaatgcaa agtctattct ttttctcata 300
tctataattc tagttcttaa tattctgttt atctaaatct ttaatttcaa aatattttat 360
ctaaagggtc ctttaatggg gaaattgaac gaatagaaaa taaaaacttt aactgtaaat 420
aatctattca caaatgattt tcttatata 449

<210> 19489

<211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19489

agcttgcgcc ttgatgaacg tttcttctgg acgaaggcat gcacgtattg ttccatcatg 60
 cgatcncaaa ctcccgctcg tccatctgtt tgtggatgat aagctgagct catccgcaat 120
 ttcatgtcgc tcatctgaaa caggtcttgc cagacaattg cttatgaata atgggtctct 180
 gtcggagatc aagctgcgtg gcatgccatg acactctctg acgatgtcca tgaacaggat 240
 gacgactgac taacctgagt gctgagctgg cagcatgcct acgtgtatgc ctcttgaacc 300
 tcgatctact acacacaata tggcagtatt tctgtgaatc 340

<210> 19490
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19490

ttccatacct tgagggaact caactcatct aagattctat ataaagggtc tntatgacta 60
 gtacccttgc cattaacact agatgaatga tgactcatgt tgcttcctaa gttgtgggtc 120
 tttcttgttg gaggtttgaa aacaaaagggt aaaagaaact atgggtgaaa ctagccaaat 180
 aaacactaaa agaggtgtga aagataagggt aaaaaactaa ttggtaaaag gaaagctatc 240
 tangcggttt gacaatggaa ggtaaaggaa ataagctatg aaagtaagca agacatgtaa 300
 actaggcgaa tcctaagagt gtttgatga ccacattcaa ggttcccaac anaacactca 360
 ctatcctaag gaaaaattgc ctaaaattat tacacacaaa tggaagtttg gtaacctatt 420
 ggaggctccc aacacacttt caatgaaagg cctt 454

<210> 19491
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19491

nttgatttca atctgaagca tctcgatata ttacagtgtt tcagtcggac atccttttan 60

aaatttattg ctgtttgaac tttctaggag tttctgtttt caatttctag tgtctcgata 120
 tattatggga ctcaatcgga gatcctagtt aaaagttatt gtgatttgct tatgaaacga 180
 gctttcgttt tcaatttcga gcgctctgat atatgacggg actcaatcgg acatccgagt 240
 aaaaaagtta ttgtcgtttg aattttatac gagcttccgt tgtcaatttg gagcatctcg 300
 atatattacc ggactcaatc agacatccga gataaaagtt acagcgggtt gaatttgcta 360
 cgagccatcc gtttcaattt cgagcgtctc gatatattat ttgactcact cagaaatttg 420
 agtaaaatgt tattgtcggt cgaatctgat ac 452

<210> 19492
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 19492

ttcggcattca agtccaatcg tctcgatata ttacgggact gaatcaggca tccgagtaaa 60
 aagttattgt ggcttggaaat tgcagagagc ttcggtattc catttcgagc gtctcaatat 120
 attacgggac tcaatcagac atccgagtaa tacgttattg tcgtttgaat ttgctcatag 180
 cttcgataat caatttcgag cgtctcgata tattacggga ctcagtcaaa caaccgagtg 240
 aatagttatt gtcgtttgaa tttgctcaga gtttcaacat tcaatttcta gcattctgat 300
 atattacatg actcaatcag acatccaagt aaacagttgt tgtcgtttgg aattgctcag 360
 agtttcaaca ttcaatttcg agcgtctcga tatattacgg gagtcaatcg aacatacagag 420
 tcaaaaactta t 431

<210> 19493
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19493

agcttgtgac ttttgtaang tctaacgaaa gggaaacagg accaaccaaa ggctctaaga 60
 acgttataat ctggattctt gttgacaaaag acagtagtat agggaaacatt acaatgcaca 120
 gaagcagtag gcaatctatc tatcaagtag gctgctgtag tgaaggcaaa atccccaac 180

ttgagaggca gtgaagcttg ttttaagaaga gcgagtccta attccacaat atgtttgtgt 240
 ttcctttcca ctacaccatt ttggtgatga gtgtgtggac agatcaatct aagagtgata 300
 ccttggttg ctaaaaaatt agtgagaggt ctgaactctt ctctcaatc tgtgtgaaca 360
 ctcttaattc tggagtcaaa ctgaagttca ttagcttgaa ctgttgaaa 409

<210> 19494
 <211> 323
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19494

agcttatata ttttactcat ttaacaagaa ttgccactga aacgatagca ttggctgcac 60
 ttgcaatcct tggccacaga tcagcacact cttttccaat gggaccagtg atagcagaac 120
 ctacattgaa acatgtcaca aacaaaatta ctaccagcaa atgcatcaat agaaggtcaa 180
 acggcaaaga tgaagagaat aacaagtaca tgagaacatc tcactgtat ttctttcttt 240
 ttgaaagcca aaaataatca gtgggtactc actacataaa catgcacttt gttaccatgc 300
 anataaaatc ataaacgata cct 323

<210> 19495
 <211> 311
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19495

agcttctatt ctgaatttca agcgtctcga tgtactacag gacacaatca aatatccgag 60
 taacaagcta ttgtcgtttg aatctgctta gagcttctgt tctcaatttc gagcttctcg 120
 atatattacg agactcaatc ggacatccga gtaaaaagtt atcgtcgtta gaaatttctc 180
 agagctttcg ttatcaatta ccagttactc gatataattat gggattcatt cggacatccg 240
 agtaaaaatt tattgtcggt tgattctgct cagagattnc gctatcaatt acgaggatct 300
 caatatatca c 311

<210> 19496
 <211> 404
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19496

ntgagcaaatt tcaaacgaca ttaactntnt actcggatgt ctgattcagt ccogtaatat 60
atcgagacyc ttgaatttga atgcggaagc tctgagcaa ttcaaacgac aataactttt 120
tagtcggatg tctgattgag tcccgttaata tatcgagatg ctcgaaatgg aataccgaag 180
ctctgagcaa attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
atatcgagac gctcgaaatg gaattctgaa gctctgagca aattcaaacg acaataaatt 300
ttaactcaga tgtctgattg agtcttgcaa tatatcgaga cgctcgaaat tgaataccga 360
agctctgatc aaattcaaac gacaantaac ctttactcgg atgt 404

<210> 19497

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19497

ctataaaact aagcttaacc tagaggacca gactatccag tggttggttt atcacgacaa 60
tgtctacaag attgacttgc ctagtgagta taatgtaagt gccattttca atgtgtctga 120
tctatctctt tntgatgcag atggaggggc cttgggtttg aggacaaatc cttttcaaga 180
aggagggagt gatgatgaca taaccaaggg caaggaccat gaagcacttg aagggcctat 240
gaccagaggc agacttaaac aagcccaaca catcatagag acaagggttg tcatttgtat 300
agctgccatt gatgatgatt gaaggcccaa gtggagaaag atgaatgccc agaggcagag 360
gcactaccaa gactacta 378

<210> 19498

<211> 402

<212> DNA

<213> Glycine max

<400> 19498

agcttggtgt cattaaatct tacatgaatg gccttttcta cagtcaagggt tctggagtta 60
tgcactctgt atgccttgga caattcaaag tattcaagta agattctaga atcacactag 120

gagtcaaact ttccaagttt atccttggtg tttaggatga aacgctgaca tccaaatgag 180
 tggaagtaag agatattggg cttacgtctc ttccataatt catagggact tctttaagat 240
 aggccttatg taaattttgt tctataaata ccaggaaaca tttacagctt caaccataa 300
 atctttggga gttgagtgat cgttaagcat tgttcatgcc atttcttgaa gagatatctc 360
 tttctctca acaacttcat tctggtgtgc tgttcttgga gt 402

<210> 19499
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19499

tgccagaaag ganaacaagt aaaaagttct tttaaagtca aaaatgttgt ttctacttct 60
 aggccttttag agctcctaca ccttgaccta tttataccaa ctaggacaac atccttctat 120
 ggacgcagat atggtctggt catagtggat gattacacta gatggacatg ggtaggttc 180
 ctaaccaca aggatgagtc ttttgatacc ttctataaat ttgtaaaaa gatttacaat 240
 gaaaaaggta tttgtatctc ttcaatcaga agtgaccatg agggagagtt taaaaatgat 300
 atttttgaaa aaatttgtca agagaatggg attcaccaca attttccact ccaagaacac 360
 cacaacagaa tggagttttt gagagcaaaa atagatctct ttaagaaatn gctangacca 420
 tgcttaatga cccaccaac cctaaatact 450

<210> 19500
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 19500

gctttaatgg cctagtgagg atggagaggc gcaactaaga agccagtgga gtttgatata 60
 tccattgaac agtacaatga taagggtgctt tgtgatgttg ttactatgga cgctagccac 120
 ttactcttgg ggagaccatg gcaatttaat aagagggcta atcatgatgg tttcaccaac 180
 aatatctctc tcacggatca acgcacaaag atgtgctcta accattgagt ccacaagaag 240
 tgtgtgagga tcaaagacaa atgagagaga taattcttca agaccagaga gacatagaaa 300
 acagagccaa acacttgaga gttcaaaaag tgacgacaaa cagagggaaa cacacgagag 360

gacacagatg agtgaaacac ttg

383

<210> 19501
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19501

ttgatggtgt tgagaagaaa tcacatgttt gtcaccttca aaatcttcat gattaatttg 60
atgatgtttg tgaacttttg aatgagtttt tgatgctttg ttactcctta aatatttgac 120
tttcattaat atttttttat ttatttatta tcttataggt atgtagaaaa acctgaaaat 180
tatacctgtca taggaacaaa atgggttttt agaaataaat tagatgaaca tggcatagta 240
agaaacaaaa caatattgct ttatccattg cttaaagcga atatctctt gccggcagtt 300
gttgtgcaca gattntatgg atgaagcaac aattatctga ctatgggtatc cttcttgatc 360
acatacctat tangtgtgat aatactagtg ccataaatct atccaaaaac cctgtacaac 420
attctcgaat 430

<210> 19502
<211> 392
<212> DNA
<213> Glycine max

<400> 19502

agttttggctc tggccatcag aaccatctca ttctctactt catccatctt ggaataaaca 60
ttcctgtcaa gtgagtgtct ttttgcata aacaaatcaa atgtgatctt ctgatcatct 120
attcctatctt ccagattacc ttccctata tccaccacac aattggcggt tagcatgaag 180
ggacaaccta aaatcagagg ggattcagca tctcttcaa tgtccatgat cacaagtc 240
acagtgaaag tgaattgtcg caccttgacc aatacatctt caaccatgcc ataacgcctt 300
gaaatgtaac gatttgccag ctgcaattca ttcttggtgc ataatttcag ctctccaatc 360
ttttgcacat gagagcggat caaataatac ta 392

<210> 19503
<211> 378
<212> DNA

<213> Glycine max

<400> 19503

agcttgcaca tcttctcgat caggttgaca attcaaact aattgtccct tggcagcttc 60
agccaccgca tggttttgac tcttgaatc caattcattc tgcaccgta cctcattctc 120
caatctgtca actggagtta aatgtcgtaa ggtgctatct acttctgatt catctttggt 180
ccgccatgat aactgatttc tctgagcaat ctctgcttca cgttcggatt gccgcttctt 240
ctttcgcata atcaggggtt taaaccgacg tttaactgtc atgcacacat tgcattgtga 300
tgtgggtttg tgtttgccct tcccacttgg tggctggata cagacaatgc atgagcacc 360
aggtctatgc cgaggatg 378

<210> 19504

<211> 279

<212> DNA

<213> Glycine max

<400> 19504

agcttctgtc tttactttga accggtcctg gtctatccac ttgtggaacc aaagaaaatg 60
aaaacaaagc acttcttcta tccatactta gagaacttgc gttcttgttc cactgggaaa 120
aaaccagtcc aatgaatatg gtcaagtgtt ctacgcaaac catatgtatt gacagcttca 180
ttagcagctc taaagccacc accaatagct gggaagaat cattggccat ctgattcttg 240
acaaattcac ccaatttatt ttccacatga gattctgcc 279

<210> 19505

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19505

agcttccaag aatcaagatc aagattcatg aatcaagaga agacttaatc aagataagta 60
tgaaaagggt ttttcaaaaa ctgagtacca catggatttt tctcaaaaca tatttacaa 120
agacttttta ctctctggta atcaattacc agattattgt aatcgattac cagtagcaaa 180
atggatttga aaaagttttc aatgaattt acaacgttcc aattgatttc aaaaaagctg 240
taatcgatta caatgttttg gtaatcgatt accagtgccct ttgaacgttg aaattcaaat 300

tcaaatgcga agagtcacat cctttcacat aaaagatntg tgtaattgat tacattgatt 360
 tggaatcgat taccagtgat tggttctgaa taaactaaaa gatgtaact 409

<210> 19506
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19506

agcttctgga tatactatgc atctgaatcg gacaaccgtg tgacaagtta tgactatntg 60
 aatctctcga gagcattcct tattcaattt cgagcgtgtc gataaatcat gcgcctgaat 120
 cggacattcg tgtgacaagt tatgactatt tgaatttctc gagagctgcc gggttttcaat 180
 ttagagcatc tcgatatgtg atgcgccaga atcggacatc cgtgtgacaa gttatgacca 240
 tttgaatttc tcgagagctt tcgatgttca atgtcgagcg tctggatata ttatgcgcct 300
 gaatcggacc tccgtgtgac aagctctgac catttgaatc tctcgagagc attcgttggt 360
 caatatcaag cgtctcgaga ttatatgcgc cttgatc 397

<210> 19507
 <211> 309
 <212> DNA
 <213> Glycine max
 <400> 19507

agcttgtggg attatgtgat agtgcatttg ccagacatgc tgatgatatg ataagtacta 60
 ctggatctgt attctttatg ggcgattgag tatttacatg gagttctaac gaacaaggca 120
 ttgtgacact ttttacttgt gaagtcgagg ttataactac aacttcttgc acatgtcatg 180
 ccatttggct aagaagattg ttggaggaac ttcagttgct gcagaatgaa agcaccaaga 240
 tctatgttga tagttgatct gcgcaagagc tcgccaagaa tccggtgttc catgaacgaa 300
 gctagcata 309

<210> 19508
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 19508

agcttatcta tgggggcaga atcactctca ttaactcagt cctatcagct ctacctatct 60
acttactatc cttctttaag atccctaaaa aagtgggtgca caaaattggt tccatccaca 120
gaaatttctt ttgggggaggt catcaagagg ccaacaagat tcttgggtg aagtggagaca 180
cagtttgctt tccaaagaac aaaggggggc tatggatcaa agatttactt aaatttataa 240
acgctctact tggcaaatgg ggggtgggagc tggctaataa tcacaacca ccttggacta 300
gaattttact ttctaaatat 320

<210> 19509

<211> 390

<212> DNA

<213> Glycine max

<400> 19509

agcttgtgcc tcttctcgtc tggaatatga atgtagcata tagatccaaa gacccttatg 60
tgctttgctg atggcttctt cccgttccaa gcttcaattg gagtcttgct ttttacagac 120
ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttcagc ccagaatttg 180
ttaggtagtc ctttctcctt gagcatcgat ctagctatct ccataactgt gcgattcttt 240
ctctcggaca ctctattttg ttgaggagaa tatgagactg taagttgtcg ctcaatgcct 300
tcacctcac aaaatctttt aaactcgaga gaggtgtact ttttgccgcg atcacttctt 360
agtactttta tccgttttcc actttgattt 390

<210> 19510

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19510

agttttctta agaagattcc taaagaagct agagcttagc tacacatacc tctctaatag 60
ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcacc ccatgacaaa aaaacatgaa aataacaaaa aaagtcctta ttacaaagac 180
aactcaaat gccccgaaat acaaggctaa aaccctatac tactagaatg gccaaaatac 240
aaggcctaga caaaggaaaa acctattcta atatttacia agataagcgg gctcatactt 300

agcccatgtg ctcgatatct accctaacgc tcatgagaac nctanggcct ttccttggat 360
ctctagccca atctacttgg agtcttctag 390

<210> 19511
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19511

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gatatcttaa gaaggggggg gttgaattaa gatattcgaa actttttccc ctaattaaaa 120
atctatctta ctttttactt aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180
attcaaataga agcaacttga atatgaatat aaagcaataa taaataaagg agattaacgy 240
aagagaaaat gcacactcag ttttatactg gctcggtcac acccttgtgc ctacgttcag 300
tccccaagca acccgcttga gagttnact aacttgtcaa ttccttttac aagttctaaa 360
caca 364

<210> 19512
<211> 385
<212> DNA
<213> Glycine max

<400> 19512

agctttggag aaccaagcca atcaaaatgc tagacgaaat atagatggga atagaggtaa 60
caatggcgggt aatgacggac cgaggcagaa cggggttgag ggagtaaagc tcaatgttcc 120
tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180
cgtatttgcc tgcaatgact aactgatgc gcagaaagtc aagctagcag cagctgaatt 240
ctccgactat gcccttgttt ggtggcataa ataccaaaga gaaatgttga gagaggaacg 300
gcgagaggta tatacatgga ctgagatgaa aagggtgatg agaacaaggt atgtgcccac 360
tagctataac agaaccatgc gacag 385

<210> 19513
<211> 381
<212> DNA

<213> Glycine max

<400> 19513

agcttgccgc cacggagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60
agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
ggaaagcggg tctgcccggc agtactcaa gggacttcaa attcaagctc caaaaaacraa 180
ccccaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
caaattattga agaagatgag gaggttaacta tggcttcgat ttcttaattgg ttgactaatg 300
atatctgtga tattgttgag ctgcacgagt ttgttgaaat ggatgatttg cttcacatag 360
caatccaagt ggagcaacaa t 381

<210> 19514

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19514

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aaagttattg tcgtttgatt tttctcagag cttcagtttt caatttcgag cgtctcgata 120
tactacggga cacaatcgga catccgagtc aaacgttatt gtcgtttgaa ttgcttaga 180
gcttttgttt tcaattacga gcgtctcgat atattatggg gctcaatcgg acattcgagt 240
aaaaagctat tgcgtttga tttttctcag agcttcaatt ttcaatttcg agcgtctcga 300
tatactatgg gacacaatcg gacattcgag tcacaagtta ttggcgtttg aatttgctca 360
cagcttctgt tntcaattac gagcgtctca catattacgg gactcaatcg gacatccgag 420
ctaaagttat 430

<210> 19515

<211> 388

<212> DNA

<213> Glycine max

<400> 19515

agctttgcag cctattcctt ccttgaagta gctatggctt tttctgggtg cctcttgatc 60
tccctatttg aaacttcaac ttgtccattt gtttgccgat gatagagtga tgctaataatg 120

tgttgaacat catattgttg gaggacgttt gaaagttgat cattacaaaa gtgtgtacct 180
 ccatcactaa tcaatagtct aggcactcca aatctagaaa agatgtttct ctttaagaac 240
 ttaatcattg tctttgcac c attgattgga ctagcaattg cttccaccca ctctgagaca 300
 tagtgcacca ctaccaagat atattcattg ccaaggagg atggtaaggg accaaceaaa 360
 tcaattcccc aacaataaaa gacttcta 388

<210> 19516
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 19516

agctttggag cttccatgtg ccaatttttc ttcttcttta gtccagtctt cttctggctt 60
 caattcatca gtgggctctc cttctgtgtg cagcatctag ggatgttccc agcctttgat 120
 gacagctttc caggttctgc tatccagtga tttagcgaca gccaccatcc ttgctgtcca 180
 gtatccatag ttggttccat ctacgattgg tggctctgtg actgtgcctc cttctatctc 240
 catgtgcac cagaatttatt tccctatata tcaactctgtg atctcgaatg ttggctcttg 300
 atccaatcga gattctgatc c 321

<210> 19517
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 19517

tgcccttctg atccgaagag gctgaccctt gcggagtccg tcgagagcga aattgacctc 60
 gtcaacgtgc tccatcatct ctccgaactc ctgcgcctcc atcagcgtcg acgtcgccgg 120
 aatccccctc gccggcgccc gctatgccct cttcgactcc cttgctccgc ctgcgccggt 180
 gccgtttccg aagtcgccga tctccgaatc gaaaaaggac caacgctgcg aggacgagtc 240
 ctgtgaggag aacgcgaagc cgcagagagg gtcgtctatc tcctgagata aggaatccct 300
 gaatggctcc gcaacgtcgt cgttttagaga ggacgagccc gaatacgttc ccgaaagggg 360
 ttctctgcgg cggtcgacg tgcggacgat catcttatac ggggatcggc g 411

<210> 19518
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 19518

tgtctgcaac ctcataaagg tgcttggcgc attagctgag cctaaaaagc atcactagcc 60
 attcatacaa atcaaactta gtcttgaaag cggttttcca ctcatcagcc tttttcatcc 120
 tgaattgggtg ataccactt ttaagatcaa tttttgaaaa gatattgtca ccatgcaact 180
 catcaagcaa atcatcaagt ataggaatgg ggtgcctata ctctacagcg atgctgctga 240
 tggccctgca atttgtacac attctccacg taccatcctt tttgggcacc aacaacactg 300
 gcccaacaca tgggcttatg ctcttttgac ccagcccttc ttaacaatct tttacctgaa 360
 atctatctcc tatctcctga g 381

<210> 19519
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19519

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 attcttagtt cagaatggct tctccagagg aataatggac accacattat ttagaaaggc 120
 tcagaaggaa aatctactta ttgtacaaat ctatgtagat gacataatct ttggttcaac 180
 cttagaaagg acgtgcaaga agttttttga gctaacgaaa ggtgaatttg aaatgagtat 240
 gatgggtgag ctgaagttct tcctagggct tcaagttatt cataaagatg atggaatatt 300
 catccatcaa gagaaataca caaaggatct acttanaggt tcaagatgga tgaaacaaaa 360
 cctatggctg cccctatgca tccaactatt gtcagtgaca aaggtgagaa acacaatgat 420
 actc 424

<210> 19520
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19520

agctttgaat gctctattca atggagttga caagaatata ttcagactga tcaacacatg 60
cacagtggcc aatgatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaacgacga 180
agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgccc 240
gggagagagg atgacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300
atttgacatg aaagtcactg caatagagga ggcncagac atttgcaact tgagagtggg 360
tgaactcatt ggttccctta tacctttgac tatgactctc gg 402

<210> 19521

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19521

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tatcatcatt tttttctccg tcattgaggt gccacttgag ctgccaggtc tctccacctt 120
taggcgtatt cttttgaaag attcgtgcc cctttttgca catgttctgt agttgcatcc 180
tatccgaaga cattatactg aactgccta acgaaggcaa ccattangtc ctcccangaa 240
tggactcggg aaggttccaa gtagtgtac caggtaacaa ctaccccagt aagactttct 300
tggaaggaat gtactaacia ttcctcatct tttgcgtatg ccncatctt ccgacaatac 360
gtcttttagat ggttcttggg gcaagtaatc cccttgact tgtcaaagtc cagtaccttg 420
aacttgag 428

<210> 19522

<211> 377

<212> DNA

<213> Glycine max

<400> 19522

tgggttaagt tgagttggtt catcatattg agaccattat gttcattaat atcattaatt 60
tgtataaatg ttgttacaat ctacatgtgt atatcatgct gcttatgaaa ttagtattat 120
tacaaaaact tcttgctctt aattttgata tgtatggcgt gacacccttt accccgacat 180

atacataaat aaataaaata tgtaaatata ttggtaaaca aatccacgtg ggtaaaagat 240
 tcacattcac ttcactatta tcaaatataa tttgtataaa tgttggttca atctacatgt 300
 gtatatcatg ttgcttatgc aatttacttt attacaaaaa tttcttgctt ttaattttga 360
 taatggatgg tatacat 377

<210> 19523
 <211> 375
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19523

agctttgtca aagttagcat ggatggagca ccttacctcc gcaaagttga cttgaagatg 60
 tacaagagtt accctgagct ctctgatgcc ttgggcaaaa tgttttagctc cttcaccatt 120
 ggtaactata attaatccat aatttaccat acattaactt ttttttatat agaatttaat 180
 gactgatcat aacttttacg tatcagtatc tagtttggtt tctctttaat ataactacca 240
 aaagatatgg atcttanatt tgattctgta gaaagttaac taatggtgta tgtgaatata 300
 aaattgaatc gtgcagctga ttcgatggta ttaattattg gtgtgttctt gatatattta 360
 aggaaattgt gaatc 375

<210> 19524
 <211> 390
 <212> DNA
 <213> Glycine max

 <400> 19524

agcttatcac ccttaccggc tattaaaaaa tcttttaagg gaagttaaga gcatgatagt 60
 gtgctgatac cattaactag tcaacagggt cttgagcggg ttgagggcat caatactata 120
 tttggaaaga cccaaaagaa gaaaaaaaaa agtaaaactt ccatatggaa gatgaggctg 180
 atattgtttg atcttcata ctggttcgat ctagatgtca tacattgtat tgatgttatg 240
 catgttgaga aaagtgtgtg tgatagtgtc atcgacaatc ttcttaacat tcaaggcaag 300
 acaaaggatg gtttgaatac ttgccaagat ctagttgaga tgggtatacg agaccagtta 360
 catccaaggt ttgatggtaa gaaaatatac 390

<210> 19525
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 19525

tccatcacat tciaaaatgta gtttygagaa tgaacgatat gctttctttgt aacataaacy 60
 ttttagtcaac atttctagag aaatgatgga aagattaata aagaatgaaa ttcttctga 120
 tctacatttt acggatctaa ctatttgtat ggattgtatt aagggaacac aaacaaaaca 180
 taaaaagaaa ggagctacca gaaacactcg gcttcttgaa attgcgcata ctgatatttg 240
 tgaatcattt gatgttaatt ccttcataca agaaaaatac tttatcacct ttattgatca 300
 ctattcacgt cacggttatg cctacttact gcatgagaac tctcaagcag cggatgcctt 360
 ataaatttac ttgaatgaag taaaaagaca atta 394

<210> 19526
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19526

agcttggagc tggttcacgc tggcgtcgta caactgggtca ggaaatttat tctccattct 60
 tagtggcttt cacacatgag gtatgactta atttgtttca cgtacttaat tatggattaa 120
 taatcatcac catattatac tcatgatttt ttttattgat cagaactcgg aaaactggaa 180
 gtcctctcat ttgacaaaag gaactatcat ggatccaaat tacagcttgc ctcccaatat 240
 tgctctgata actcttgagg tagagcaact tttccaagga tatatatcta tagtctataa 300
 cactcttgac tctntttgtc tcanactaaa atgttctgca tgagttggat ggtggaattg 360
 tgctctttcc gttggcacat ctata 385

<210> 19527
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19527

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggat ttgatggggc 60

ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgtg gatgattcct 120
ccagatttac ctgagtaaac tctatcagag agaaatcaga aacctttgaa gtattcaaag 180
agttgagtct aggacttcaa agagagaaag actgtgtcat ccagagaatc atgagtgacc 240
atggcataga atttgaaaac agcacgttca ctgaattctg ctcattctgaa ggcattcactc 300
atgagttctc tgcgcgcatt acaccacaac agaattgtgat agttgagatg aaaaacacga 360
ccttgcaaga tgctgctcgg gtcattgcttc atg 393

<210> 19528
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19528

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aatttattgt cgtttgaatt tgctcagaga ttcaacattc aatttcgagc gtctcgatat 120
attacgggac tcaatcagac atccgagtaa aaagttattg ccgtttgaat tggctccgag 180
cttcaacatt caatttcgag cgtctcgata tgttacgaga ctcaatcaca catccganta 240
aaaacctatt gtcgtttgaa ttgctcaga gattcaacat tgaatttcga gggctctgat 300
atcttacggg actcaatcag acatccgagt gaatagctat tgctgtttga attggctcag 360
agcttcaaca ttcaatttcg agcggctcga tatattacgg tact 404

<210> 19529
<211> 440
<212> DNA
<213> Glycine max
<400> 19529

aaactaagct taaaaagtt tgtatggctt gaaacaagca ccgaggtagt ggtacaagaa 60
gtttaatgag tttatgagca actcaggatt caaaagatgt gacatggacc attgctgcta 120
tgttaaaaaa tataactaata gttatgttat ccttgttgtg tatgttgatg acatgttgat 180
tgcaggatct agtatggcag aaattaacag gttgaagcag cagttggcag aaaactttga 240
aatgaaggat cttggtccag ctaaacaat ccttggtatg agaattctta gaaacagatc 300
agaaggaatt ttgaagctgt ctcaggagaa atatatacac aagttgcttg acaggtttta 360

ccttggagat tctaagacca ggaatacccc tctgggatct catttgaagt tttcaaagaa 420

gcaatctttg cagacaaatg 440

<210> 19530

<211> 386

<212> DNA

<213> Glycine max

<400> 19530

agcttatcaa aattgaaaat gatggttcct aatctcaaga atcttagagt cttagattgt 60

gagtcttgcc aactaggaaa acatgtagg tcatcatttc ctcaaactgt acaaagatgt 120

aactctgctt tctctacat tcaactctgat atttggggac caagtagggt tacatctttt 180

gattttcggg attttgtaac cttcattgat gaatttttca gatgtacttg gggtttattta 240

atgaaagaca gatctgaact tttgcctata ttcatgttgt tctttaatga gattgagaat 300

caatttggca aatcaattaa gattttcaaa agtgataatg ctaaagagta tttctctcat 360

gatctctctt cctttttatc ttcaaa 386

<210> 19531

<211> 411

<212> DNA

<213> Glycine max

<400> 19531

tggagtaagt tcctgagacc gaggactgct tatgaggctg tagcttgacc atgaccaat 60

caccttcctt aaaggtagcg tccctacatt ttttatctgc catttgtttc atgaggctcct 120

gagctttcaa cagcttcttg cggattacca cgaaggcctc atctctgatt ttcaaaacct 180

catctactat gcccaatgic aaggtagctg taatgtattg tggtaggtg aggggtttct 240

tgctgaaagt catctcgtat ggggacaaac tagagccgga gtggaccgag gtgttataga 300

accactccac ccaatttaaa aacttcccc atgaagacgg cttcttatga acaaaggctc 360

gaagacattg ttctatgaca cggttcagca cctttgtcta accatcgatc t 411

<210> 19532

<211> 329

<212> DNA

<213> Glycine max

<400> 19532

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acaaaaacca tatcaccaac ttggtattca gcttcacggc gctttttatc tgctaaatac 120
tccatgcatg ttgagcttt ctccaattct tctttgattt ctgcgaaaat agcctcgcga 130
tcagtgcgca tgacattcac aacatcaatg ttagaattct ctqcccaata ttgagaacag 240
ttgaaaggct tcttcgcaca tgtgatctcg tacggggaaa gacctgagct tgagttccaa 300
gaggtgatgt aagaccactc cacccaacc 329

<210> 19533

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19533

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tataaataga cctcccatct ttaatggagt gggttaccac tattggaaaa cccgcatgca 120
aatctatata gaggcaatag atttaaatat ttgggaagcc atagaacaag gaccttatgt 180
tccctctata gtggccggaa gtgcaacaat agaaaaacct agagcatatt ggactgagga 240
agaaagaaga ttantacaat ataatttaaa ggccaaaaat attattacat ctgctctatg 300
aatagatgaa tactttacgg tctcaaattg taacagtgtc aacgatatgt gggataccct 360
acaagtaaca cat 373

<210> 19534

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19534

agctttcata catcagacca cgttccacgg gtgttggaac ttacttcacg atgtgacttg 60
atgagggccc tatgcacagt tgcaaagcac ttggatggaa aagaggtact gccctatcgt 120
tgtttgtgga ttgactttct ccagaattta cgctgggtca atctttatcc agagaggaaa 180
tcagacacct cttgaagtat tcaaagagtt gagtctaaga cttcaaagag aaaaagactg 240

tgtcatcaag agaattatga gtgaccatgg cagagagttt gaaaacagca agtttactga 300
attctgcaca tctgaaggca tcaactcatga gttctctgca gccatcacac cacancataa 360
tggcatagtt gaaggaacaa catgacttt 389

<210> 19535
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19535

nttgagcaat tcaaatggtc gtaacttttc actcggatgt ccgattcatg cacataatat 60
atcgagacgc ttgaaattga acaacgcaag ctctcgtgaa attcaaatgg tcataacttt 120
caactcatag gtccgattca ggcgcataat atatcgagat gcacgaaatt gaacaacgga 180
agctctcgag aaattcaaat gatcataact tttctcacgg aggtcagatt tatgcgcata 240
atatatcgag acgcttgaaa ttgaacaacg gaagctctca aaaaattcaa atggtcctaa 300
cttttcactc ggaggtccca ttcaggcgca taatatatcc agacgcctga aattgaacaa 360
cggaagcttt 370

<210> 19536
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19536

agcttagcaa atggttctgn gtgttgccca gtttcatcat atcttccgta atactcatca 60
cctctatcat atctaataat tttcacattt atgtctaatt gcccttttac ttcattgtag 120
taaatttcta aggcatccat tgcctaagaa atctcgggca gtaagtagac ataactgtaa 180
cgtgaataat cataaaaaat gatgataaag tatcattcct ttccgaaaga actaacatca 240
aaaggtccac aaatatcagt atgcacaatt tcaagaagct gagtgccttct tgtagctcct 300
ttctttgtat gttctggttg ttatccttta atacaacca cacaatatatt tagatccgta 360
caatctagat aacgaagaat tcatctttta taatcttt 398

<210> 19537
<211> 344
<212> DNA
<213> Glycine max

<400> 19537

agctctctct atatgttatg ctcttgaatc ggtcatcggg gttaaaagtc atgaccattt 60
gaatttctca agagcttttg ttgttcaatt tcgaacgtat tgatgtatta agcacctgaa 120
tcggacctcc gaccgaaaaa ttatgaccat ttgaatttct cttagagctct cgttggttaa 180
tttcaagcgt ctcgatatat tatgcgcctg acttgtacct ccgatggaaa agcgatgacc 240
attttaattt ctcgagagct cccgttggtta attttaagcg cgctatatat tatgctgccc 300
gaatctgacc ctacagttaa agctatgaat attcgaattt cccg 344

<210> 19538
<211> 393
<212> DNA
<213> Glycine max

<400> 19538

gtcataactc ttaactagga tgtcccatc ttgcacataa tatatcgaga cgctcgaat 60
tcaacaacgg aagctctcga taaattcaaa tgttcataac tgtaaactcg gatgtcagat 120
tcaggcgtat aatatataga gacccttaa attgaacaac gaaagccctc gtgaaattga 180
aatggtcata aattttaact cagatgtcat attcatgcgc atgatataac gagacgctgg 240
aaattgaaca acggaagctc ttgataaatt caaatgggtca tatgttttaa cttagaggtt 300
cgattcatac gcattatata ttgagatgct cgatattgaa caacggaagc ttttgagaaa 360
tcacatggtc ataactttta actcagatgt cat 393

<210> 19539
<211> 383
<212> DNA
<213> Glycine max

<400> 19539

agcttgtatg gcaaactgga tgcattgggt aacttggttaa cccagctggc cttgaatcac 60
aaatctgtac ctgtcgcaag ggtttgtggt ttgtgctcct ctgctgacca tcatacagac 120
ctttgccctt ccatgcagca acctgcagca attgagcagc ctgaagctta tgctgcaaat 180

atttacaata gacctcctca acctcagcag caaaatcaac cacagcagaa caattatgac 240
ctctccagca acagatacaa ccctggatgg aggaatcacc ctaatctcaa atgggtccagc 300
cctcagcaac aacaacagca gcctgctcct ttcttcaaaa tgctgctggc ccaacagacc 360
atacacttct tcaccaatcc aac 383

<210> 19540
<211> 392
<212> DNA
<213> Glycine max

<400> 19540

tattctttat ctagagtagt tgagcatcca acttactact gacatatatt cgactgtagt 60
agtggacaat gtagttgagc cttgcatctt gcataatcat gttactaagt tagcacccgat 120
aaagtaatag cttccactag agctttttct ttcaactcta tcaccaacat agtcaacatc 180
ataatagctt gcaagtctga aactctctct atttttgaac ataacaccaa gattagaagt 240
tccaattaaa tatctacaaa tatgtttaat ttcaacttagg tgaacttccc tttggtattt 300
ttgaaatctt gcacatagat aaacattgaa cataatatca caaatggatg cagttagata 360
gaccactgag ttgcatccac tttttttgat cc 392

<210> 19541
<211> 422
<212> DNA
<213> Glycine max

<400> 19541

ttaacattaa ttaaaagctc actgttgtag gggcaatcac ttatggtaat ttttatgcat 60
gtgactgaac ttgagccaat ctatatgaaa taaaataaat gcattctcag ggtttcgttt 120
tgctgaatgc tacaggcttt gcaaaacttt tttgctgctt tagtctattc tgcaaatact 180
agttttgatt ctctgctgga gtcactacta gcctgtgcta agccttctcc acagtctggc 240
ggcattgcta aacaagcttt gcattcaata gctcagtgtg ttgctgttct atgccttgct 300
gctggatgatc agaagtgttc atctactgtg aaaatgctta ctgacattct caaggatgac 360
agcagatcta actcagtaag tctttttctc cagtactctt gacgtgtagt gatattaatt 420
ga 422

<210> 19542
<211> 423
<212> DNA
<213> Glycine max

<400> 19542

tcaaaatgta gttaagactg cagacaactt ctgttcatgt ttgaagcttg atagaaacac 60
agatgttagc tatagtaata tgaggaaggc tgcttcttgg gaagatttga ctgacaacta 120
tttattctgt tctaaagctg tagatcctca gtacaaggat ttaaggcatt ttcagtggca 180
ttgggaaaag ggggagcctg tcattgtcag caatgtgctt gaatgtacat ctggtttaag 240
ctgggaaccg cttgtcatgt ggcgtgcatt acgtcatgta actaatacca agcatggcca 300
acatttggcg gagaaaacaa ttgattgctt agattggact gaggtttgct taatttccca 360
atctttaact ctattgacca tggagagctc ttacacaaa tttcattctt caccttcatt 420
ctc 423

<210> 19543
<211> 336
<212> DNA
<213> Glycine max

<400> 19543

tttcatgcaa gcttatcaaa actgaatata atggctccta ggctcaagaa tcttatactc 60
ttagactgtg agtcttgcta actaggaaaa catgttacgt catcatttcc tcaaactgta 120
caaagatgta actttgcttt gtctaccatt cagcttgata tttggggacc aagtatggtt 180
acatcttttg gttttcggtta ttttgtaacc ttcattgatg aattttccag atgtacttgc 240
ggttatttaa tgaaagacag atctgaacct ttacatatat tcatgtcgct ctctaagag 300
attgagaatc aatctggcag atcaattaag attttc 336

<210> 19544
<211> 421
<212> DNA
<213> Glycine max

<400> 19544

ctgtactcaa tgaagtttat tcttactgtg acgagtttca tactttatat actgtttgtc 60

tcttcccttg tagtttccat agcagcagac acatcatcca tttcacaatc ccaatccctc 120
 agttctggaa gaaccatagt ttctccaaat ggagtctttg aacttggatt cttcaatctt 180
 ggaaatccaa acaaaagtta cctcgggatt tggttcaaga atattccgtc tcaaaacatt 240
 gtttgggttg caaacggtgg caaccaata aatgattcct ttgccctctt gagcctaaac 300
 agttctggcc atttggctct tacacacaac aacactgttg tttggtcac aagttctcta 360
 agagaaacac agaatccagt ggcaaagctc ttggattctg cgaatcttgt gataagggat 420
 g 421

<210> 19545
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19545

tctatagaag gtccgttcct aatttctcta caattgcac acctctcaat gagctggtga 60
 agaagaatat ggcatttacc tggggtgaaa aacaagagca agcctttgct tttctcaaag 120
 aaaagcttac taaggcacct attctagctc ttctgaatt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggtgtg ggagttggag ctgtattgtt acaaggtggg caccctattg 240
 cttatttttag tgaaaaactt catagtgcc cctcaacta cccacctat gataaagagc 300
 tctatgcctt aataagagcc ctccaaactt gggaacatta cttgtttcc aaggaatntg 360
 tcattcatag tgatcatcaa tcacttaagt acattagagg gaaaatc 407

<210> 19546
 <211> 349
 <212> DNA
 <213> Glycine max
 <400> 19546

agctttgagt aaattgaaat gacaagaact ttctacacgg atgtccggtt gagtcccgtg 60
 atatatcgag atgtcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120
 tttatacacg gatgtccggt tgagtcctgt aatatatcga gacgctgtaa attgaaagcg 180
 gaagctcgta ggaaattcaa acgacaataa ctttttactc cgatgttcga ttgaatcccg 240

taatatatcc agacgctcaa aattgagact acaagctctg agcaaattgc aatgacaata 300
actctataca ccgatgcccg gttgagtccc gtaatatatc gagaccctc 349

<210> 19547
<211> 405
<212> DNA
<213> Glycine max

<400> 19547
agctttcgat aaattcaaat ggtcataact tttcactcgc atgtccgatt caggcgcata 60
acttatcgag acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggccataa 120
cttttctactc gcatgtccga ttcaggcgca taacttatcg agacgctcga aatttaacaa 180
cagaagctct cgagaaattc aaatgggcat aacttttcac tcgcatatct aattcagcgc 240
atagcatatc gagacgctag aaatttaaca acggaagctc tcgagaaatt caaatgggtca 300
taacttttca ctcgcatgtg cgattcaggc gcatagcgta tcgagacgct agaaatctaa 360
taacggaagc tctcgagaaa ttcaaatggg cataactttt cactc 405

<210> 19548
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19548
taagggtacga tgaatttcga ggtgcaagtc attcattctc ctccccaaac atactcatcc 60
cagtaactgg tagaattgta aaatatagaa gcttccgaac tccttgact gtacctgcct 120
ctctgctccc tagaaaactt gaacagcgtg gtagcaccat gaactagttt cttcgaatag 180
gccttggtgt ccttgaaaac aatggaagca gatgccaaagg cagcagccat ctcagctgca 240
agatcagaac aactatggca ttcagtcaca gggcggtcat agtccatgtc ctctgggcgc 300
atccagcaat agtgggcatt cggactgtca ccaccggaag tatctccaag cccaacctgt 360
caaacaagca taaaaaacca tcattgagac acatcctact ccgcaccaca caacanaatt 420
ctagtccacc aacc 434

<210> 19549
<211> 398

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19549

agctttatac gttcaatttc gagcgtctcg ataagttacg ggactcaatc agacatccga 60
gtaaaaagtt arrgtcgttt gaatttgcac agagggttcaa cattcaatt cgaggcgtctc 120
gatatgttac ggggctcaat cagacattca agtaaaaatt taatgtcgtt tgaattttct 180
cagagattca acattcaatt tcgagcgtct cgatatgtta cgggactcaa tcagacatct 240
gagaaaaacg ttattgtcgt ttgaattagc tcagacgttc aacattcaat ttcgagcgtc 300
tcgatatatt acgggactca atcacacatc cgagaaacaa gttatggtcg tttgcattgg 360
ctcagagctt caacattnaa ttttgagcgt ctcgatat 398

<210> 19550
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19550

ntgagccaac tcaaacgaca ataacgtttt tctcggattt ctgattgagt cccgtaacat 60
atcgagacgc tcgacattga acgttgaagc tctgagccaa tagaaacgac cataactttt 120
ttctcagatg tctgattgag tcccgttaaca tatcgagacg ctcgaaattg aatgttgaat 180
ctctgagaaa attcaaacga cattaaattt ttactcgaat gtctgattga gccccgtaac 240
atatcgagac actcgaaatt gaatgttgaa cctctgagca aattcaaacg acaataactt 300
ttttctcgga tgtctgattg agtcccgtaa catatcgaga cgctcgaaat tgaacgttga 360
agctctgagc caatacaaac gaccataact ntttactcgg atgtctgatt gaggctcgta 420
atatatctag acgctcgaaa ttga 444

<210> 19551
<211> 435
<212> DNA
<213> Glycine max

<400> 19551

gactgtatat tgatttcttt agtatgttct ctttgtgtcc atttccttca actgagaacc 60

ccattggttg gtccatacaa acattcttct ctaaattctt attcagaaag ggggttttca 120
catttatttg atgtagctcc aagtcataac gggctactaa tgccatgata atcctgaaag 180
aatcctttcg agaccagtaa aatgtctctc tataatgaat gtcataattc tgagtaaatt 240
ccttagcaac aagtctagcc ttgtaacgtt caaggctgcc atgagagtca cgtttagtc 300
tgaagaccca cttacaacca acctctctac aaccccttgg tactctctca aggttccaaa 360
caccattatg ttccatggaa tctatctctt ctctcatggc attcaaccac ttctcagagc 420
tatacacaact tacac 435

<210> 19552
<211> 318
<212> DNA
<213> Glycine max

<400> 19552

tagcttggtg gagcacgatg ggagctgata tttgtgaagg cattcaggaa tttcatggca 60
gogcatcatt gcctaaaggt atcacttcat catttactac tcttatccct aaatttgagc 120
aatcgtaaag cttgtcggag tatcacccta ttttactcat aggtgggtctt cataggatca 180
tttcgaagac tctggcccat acaatgaacg cagtattacc tactattata tctccgcaac 240
aaatagcctt tttaccgga aggaaaatcc atgatgggtgc ggctgttatc aacgagttgg 300
tggattcgcg aaaaacga 318

<210> 19553
<211> 397
<212> DNA
<213> Glycine max

<400> 19553

agcttttagcc ttaggttggt ccatgttgct gctcccotta tctttaacag taacaagcac 60
atttccattc acaggttttag cgacatcaac atcatcactt gagccctcac tttcaatggt 120
tccattatcc agtaatatca tgcctctttt atttggacat tgagaagcaa tatgaccaac 180
tccttgatac ctgaaacatt tgatatcatg ggatctagaa gatgaattaa tttccatttt 240
accttttaggt gcagcaaattg aatttttggga cttagcttca tcttttgact ttgtcataga 300
ttttttgttt tgccaatttg accttcatga ataagtggaa tcaaatttgg aagtactctt 360

agctctcaat tgctctcca cttgaataga tttatgc

397

<210> 19554

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19554

gtgcttgagc ccactctgac tcttctaggc ctgactccgt cattatccic tgagaaggaa 60

cttctacctc aaatgggagt actgcctcca tcccataaac caaggaatac ggtgttgccc 120

cagtagaagt tcgcaccgaa gttctgtacc cgtgtagggc gaaaggcagc atctcgtgcc 180

aatctttgta tgacaccgtc atcttctgaa caatcttctt gatattctta ttcgcagcct 240

ctacagcccc attcatcttt gaccgataag gggtagagtt atgatgctgg atcttgaagt 300

cttcgcacat ctctgcatt atcttattgt tcagattggg gccattgtca gtaatgatct 360

tcctgnggag tccgtatcga caaatcagct ccttctttat gaatctaact accacattct 420

ttgtgacatt agtataagaa gcg 443

<210> 19555

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19555

ggtcattaga accaatgaac tcaactgacaa tctccttgga cagaaccttc tctcgaatga 60

aatgacaatc catctctata tgcttagtcc tttcatgaaa gactgggttc gaggcaatat 120

gaagagcatc tcgattatta caatacaact tcatttgcaa ctcttcacaa aacctcaatt 180

cttgcacaaa ttgtctaata cacatgagtt cacaagtaac tatacccatc gatcgatatt 240

cagcttctgc actaaaccga cctacaaccg tctgtttctt gcttctccaa gaaataagat 300

ctcctccaat gaagacacaa tagcctgatg caaacctnct atccatggga cagccagctc 360

aatcagcatc acaata 376

<210> 19556

<211> 443

<212> DNA
<213> Glycine max

<400> 19556

agatgttagg tgatgcaatc ctaccccgca agggcattgg atagaaaact tcaagtagat 60
tgggccaag atgcaagaga agggcctagg gttctttaga gccttatggg agatttcggg 120
cccatgggct aagtatgagc ccaattatct ttgttaatat taqattaagn ttccattatt 180
tttgggcctt gtatttaggg ctccataatg taggtagggt accctagaaa tataggatgt 240
ttcagccctt gtatttaagg gcacctagac tagtttttgt attacgggta gttttgtaat 300
ttcacatgta ctaagtggat atttgatgtg tgtgggtgga aataaattta attgaattgg 360
tagaagccca atccaattaa atttttagagg gggagggtgag catttgctta ctacacccca 420
ttgccacatc atatagttac act 443

<210> 19557

<211> 341

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19557

agctttatca cttttcacac agaggtcaga ttccgggcaca taatatgtcg agatgctcgg 60
aattgaacca cggaagctct cgagtaattc aaatgggtcat aacttttcac acagatgtcc 120
gattcggggcg cataatatgt cgagtagctc gaaattgaac aacggaagct gtcgagaaat 180
tcaaattggtc ataatttttc acacggagggt cacattcngg cacataatat gttgagatgc 240
tcggaattga accacgaaag ctctcgagaa attcaaattg tcataacttt tcacacggac 300
gtccgattca cgcgtatcac atatacagac gctcgaaatt g 341

<210> 19558

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19558

acagcttgaa tcggacctca gtgtcaaaag ttatgaccat ttgtatttct cgagagcttc 60
cgtgggtcaa tgctgagcat ctgcacatat tatgtgcccg aatctgactt tcgtgtgaaa 120

agttatgacc atttgaattt ctcgagagct tccgatgttt aatttcgagc atctcaatat 180
attgtaagcc tgaatcggag ctcagtgtga aaagttatga ccatttgtat ttgtcgaatg 240
cttccttggt tcaattccga gcacctcgac atattatgtc cccgaatcta accttcgtgt 300
gaaaagttat gaccattcga atttctcgag agcttccgtt gttcagtttc gagccrctcg 360
atatattatg cgcncgaatc ggacatccgt gtgaaaagtt atgaccattt gaetntctct 420
agagct 426

<210> 19559
<211> 420
<212> DNA
<213> Glycine max

<400> 19559

gtctaaattg acgctttaga tcatttttat tatgctttgc tgagcaacat cttcaaaatt 60
gtgattagga catttctca gcaatgattt gaattactcc tatacttcac aaaagggttc 120
ttttgatcct ttctgaaatg tagaaatata tgactttaca ttgatatacc tagatggagg 180
gaaaaatcta tcaagaactt ttcttccact atgctccagc ttgtcaaact ttgatttgga 240
tgagattgta gccatgcttt ggctttccct gttaaagaca atggcaataa tctaaggtag 300
acaacctcct cttcaccttt aggaatgccc attgtgccat attgttcata gaaagtagat 360
agatgagtat atggatcctc attaccagca cttgcaaact gatgtgcact gatcaaactt 420

<210> 19560
<211> 397
<212> DNA
<213> Glycine max

<400> 19560

tttcttattg agtaaaataa agcccaaaga gcaggaataa ttaaggaaat cagagctaatt 60
tgagaaaagc aagctaattg aggaaagaat ggctaattga ggaaagcatg gctaattaag 120
gaaataagat taattaagga aagcaaagtt aataaaggaa agaagactta ttaaggaaag 180
tagaataatt aaggaaacca taattaatta aggaaagtaa aggagactt ggtgtaaaaa 240
gtcactaat ctgcacctat aaaagaaaaa gagaaaagaa ggagaagaca catagaaatt 300
ccaagagaat ataattcctc atagaacgaa aaggctagaa gaaggagaag caaacaatag 360

gagtcattcc ttcctctat ctcctttctt atctttt

397

<210> 19561
<211> 433
<212> DNA
<213> Glycine max

<400> 19561

ttgatgcaac atttggagag gttaatgaaa catcttggtg atgcgctcca tgagagggtg 60
gatcaaattg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120
gttcctagac aaaaccgaat tgatgggtatt aaactcaaca ttcctccatt taaaggaaag 180
aatgatccgg aggctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240
aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300
gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca 360
tggacggaga tgaaaaagat catgaggaag cggtatgtgc cggctagtta ctcaagggaac 420
ttgaaattca agc 433

<210> 19562
<211> 412
<212> DNA
<213> Glycine max

<400> 19562

acatctagag gtgctttcca atctgttctt ttaccactta ttctgccttc ttttattttc 60
agagtgggaa tgcctctgac agcacctttg tcaatgattt tcttcatgcc tcttaagtgc 120
agatgtccca atctttgatg ccatattctg acttcatctt ctttggagga tagacatgtg 180
gaggagtaac tgctttcttg acgtgtccat acgtagcagt tgtcctttga tctgctgccc 240
ttcattagaa cttcactctt ctcatcagtc actaagcatt ctgactttgt gaagcttaca 300
ttgaatcctt catcacacag ctgactgatg ctgatcaagt ttgcagtcag tcccttcacc 360
agcagtactt tgtccagact atgaagtcca tcatggacta actttcccat tc 412

<210> 19563
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19563

agcttagact aaatgtacct aggtacgttg gcgatggaca acaaaaagcg agcagtcatg 60
gtcgtcagcg cgatggagaa agcttagatg cagaacacgg agaagaagag agcgcgagca 120
atcraggtcg tgtatgatat aagttaaaat ggaattccaa catcgatttt caatacaaaa 180
ccgatgttaa caaaatgatg ttaacgttaa catcggtttt cttctanaaa ctgatgttaa 240
ctgatcatat gttaacatcg atgttcaaaa aaccaatggt aacgaacata ggtaaacatc 300
ggttttcttc aaaccgatg ttaactaaga gacattaaca tcgattnttc caaaccgatt 360
taacaaatta atgttaacat caatcttaca agaatcg 397

<210> 19564
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19564

tactcaagct tgttgatgag actctgagac ggaggaatct ctttgattct gttttattat 60
gaccatgcaa cagtatgtat gtttaagagg gatatgatat ttttacattg agaaattaaa 120
aggtcacatcg attttggttg gtatattaga ggtcaggat acaacaatat aaaatcgatt 180
tgttgatttt atgtcaagta aatcctgtgt ggatagggaa agcctttctg aatacctact 240
tgatcaccac atccatcttt anaaggaaaa ttagttgcgc tcaaattttc agagatgaca 300
ttatgctctg tgattatctt tttcattgat tgaaagtcac taatgatata tttcatatcc 360
tttatttatg tctattaaat gctgatgacg ttttgccgt 399

<210> 19565
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19565

gcctaattcg tctaagagct cgacagcggc gggcattgga tatcgatcac gcaccngat 60
ngcatttaaa gctctgtagt ccatgcaaaa gtgccatgaa ccatcctgct tgcgaactac 120

gagcacagac aagacgggtc ctttctagag cattgatcca acctgcgatt caatctcatg 180
 tttctggtaa tgtggataac gatagggccg tacgctgact ggcgcacctt gcttcatgat 240
 gtgaatgtcg aggtctgttt cgcgggcccgt cgtcatctaa taacggggct caaataatgc 300
 acgaaaatga tcaattcaag attggatacg tgcgtgggga gacataccac tctgcggtgc 360
 atttctacc act 373

<210> 19566
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19566

ccgcttaaac attcaatttc gagcgtctcg atatattact agattatattc ttacatccgn 60
 gtaaaacgtt attgtcgttt gaattcgctc agagggttcaa catttaattt cgagcgtctc 120
 gatataattac gggccttaat cagacatccg aatacaaaga tattgtcgtt tgaattggct 180
 cagaacttca acattcaatt ttgagcgtct cgatatatga taggactcaa tcagacatcc 240
 gagtaaaaag ttattgtcgc ttgaattgtc ttagagcttc aacattcaat ttcgagcgtc 300
 tcgatataatt acgggcctca atcagacatc cgagtaaaaa gttattgtcg tttgaattgg 360
 ctcacagctt atacattcac cttcgagcgt ctcgatatat gacaggactc aatcagacat 420
 ccatgtaa 428

<210> 19567
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19567

acctccttaa cnttagaccc aaaatagcca caacagaaca attatgacct ctccagcaac 60
 aagtacaatc ctgggtggag gaatcatccc aaccttagat ggtcgaatcc ttcacaacag 120
 cggcaacaac aacaacaaca acaacaacct tattttcaga atgctgctgg cccaagcaga 180
 ccatatgttc ctccaccaat ccagcaacaa caataacagc aaacagatga ggcccctccg 240
 taaccttccc ttgaagaact tgcgaggcaa atgactatgc aaaacatgca gtttcaacaa 300

gagaccacag cctccattca gagcttaact aatcacgtgg gacagtcggc tacacagttc 360
aatcaacaac agtcccagaa ttatgataga ttaccttttc aatc 404

<210> 19568
<211> 369
<212> DNA
<213> Glycine max

<400> 19568
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attcctagaa gccatcttat gaaagataga cactccgagg tactttccca gatccttagt 120
ccacgccata ccattttgtc cacttagttg atccttgact cgagcctcca catttttggg 180
aaagaacatt caacattttct ccaacctaata tttctgctta caactcttgc aaaacaaatt 240
ccaadtattc ctgattgaat ggacctgctc cactaaagcc ttcataaata aaataaggtc 300
ccatgcaaag gctaagcgag atataactgg accatgtctc acaagacgaa tatggcacca 360
tactctttg 369

<210> 19569
<211> 386
<212> DNA
<213> Glycine max

<223> unsure_at all n locations
<400> 19569

agcttctata gaaggttcgt tctaatttc tctacaattg catcacctct caatgagctg 60
gtgaagaaga atgtggcatt tacctagggg gaaaaacaag agcaagcctt tgctttgctc 120
aaagaaaagc ttactgaggc acctgttcta gctcttcttg acttttctaa aacttttgag 180
ctanaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg cgggcaccct 240
attgcttatt ttactgaaaa acttcatagt gccaccctta actaccacac ctatgataaa 300
gagctttatg ccttaataag agccctccac acttgggaac attacccttg tttccaggaa 360
tttgtcatta tagtgatcat caatca 386

<210> 19570
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19570

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atgagaaatt tagatgctaa caaaattaat atcattccta aagaaattat taaaaattca 120
acgtgacaaa acagatcatg caaaaagcat ttcaataata ataataatag gtagataara 180
tagataatag aagatttgtc accaattaaa ataattacat acaatataat caattgaaaa 240
cataattatt aatcaaggta acataattgt atgcacttag ttactatTTT aatggattg 300
attgatttgt taaaatttta ttttaaagta atcaaaaata aattgtaaca tttattatTT 360
tatttttttg aatttgaact aatttgaatt aactaattaa aatagaatta atgacactta 420
gctaattgctg aatg 434

<210> 19571
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19571

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ccgaggggata aacacatcta aagtaaggTg ttagattata tgataatata ttctgatttt 120
atataattct tatatctatt agatttatct ttagtcatat ctttagctat taggtttatc 180
tttagttnta tagttgttat atctattcga tttatcttta gccattccat tagatttatc 240
tttagccata tctttagctt atatatcttt agcttgtaac cttatatata agagaatggT 300
gcttaatgaa ttattcaagg aaacaatttc tttcatggta tcagattgct taaggaaata 360
tttttgaacc ttctcagcc ttccgcacac aggccctagc gtcgtttagc ccctttcttc 420
ttcttctccc cttcttct 438

<210> 19572
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19572

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 aatctgtacc tgtcgcaagg gtttgtgggt tgtgctcctc tgctgaccac catcacagacc 120
 tttgcccttc catgcagcat cctgcagcaa tcgagcagcc tgaagcttat gctgcaaata 180
 tttacaatat acctcctcaa cctcaacatc aaaatcaacc acatcacaac aattatgacc 240
 tctgcagcaa cagatacaac cctgtatgga cgaatcacc taacctcaaa tgggtcagcc 300
 ctcatcacca accacagcag cctcgtctctt 330

<210> 19573
 <211> 380
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19573

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 tcttctatct tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tttcttggag 180
 gatagacatg tggaggagta gctagtttct tgggggtgtcc atangtaaca attgtccttt 240
 gatctgctgc ctttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttta cattgaaccc ttcacacac agctgactga tgctgatcaa gtttgccgtc 360
 agtccttca ccagcagtac 380

<210> 19574
 <211> 439
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19574

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 atatagacgc tcgaaattga acaacggaag ctctccagat attcaaattg tcataacttt 120
 taacttggag gtccgattct ggcacataat atatcgagac gcccgaaatt gaacaacgga 180
 agcacttgag aaaatcaaat ggtcattact tttaactcga aggtccgatt caagcacatc 240
 acatatagag acgctcgaaa ttgaacaacg gaagctctcg agatattcaa atgattataa 300

cttttaactc ggaggtccga ttcaggcgca taaaatatag aaactgtcga aattgaacaa 360
 tggaagctct cgagcaattc aaatgggtcat aacttttcat tcggaggtct gatactagcg 420
 catgatatat cgagacgct 439

<210> 19575
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 19575

agctttgtgt agaagaatga tggataatct tgatccaatc aaggataact attttctaaa 60
 aaaggcaaga aagagactga gactttctga tgtagttggt ttctcaaaat cacatatttg 120
 accctatattt ctttggtaac tcattttcta attactacct aacaaatatt ttgaaagaaa 180
 ataactctta atatacgcg gataggagca ggtaaatacca tattaataaag ctgcaaaatt 240
 tggcaaagga tacatccaga tcttatgcga tcgagttctc cattgaaaat aatcactttc 300
 cgttcagtgt tcaagaccgc ctctttataa agttcttcca caacaagtat ttctgaaata 360
 caagggagca gtaatcatga ta 382

<210> 19576
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19576

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 tagtagattt tccaccacc ttgctcccg aactccatgg ttcagacaat gtagaccaag 120
 cataaacatc accacccag tttgtcttgt tattttttta acaagatgca ccacgcccac 180
 catgccctcc accagctcca tcgttgcaa caggtgtgcc actattttgg gaaggtggag 240
 accctcctaa agatgatgag tctatataag aattgtatcc cattgtcaga ttggctgcaa 300
 ataaaaccac agagccagaa acaatggatg catcttgacc aagtctaacg ttgccggata 360
 cattgactgt tatcatacac ccttncatgg gacataaaag tgacacatca gagagtatc 419

<210> 19577
 <211> 382

<212> DNA
<213> Glycine max

<400> 19577

atattatttg ttctaatacgg acatcctagt caaaagttat tgtcgtttga atttgcttac 60
agcttcagcr ttcaatttcg agcgtcttga tatattacgg ggctcgatca gacatccgag 120
taaaaagtta ttgtcgtttg acttttctta cagctcccg tttaaattac aagcgtctcg 180
atatattaga gggctcaatc ggacatccca ataaaaagtt atcgtcgttt gattttccta 240
acagcttccg ttttcaatta cgagcgtctc gatatcctac gggacacaat cggacatccg 300
agttaaaatt tattgtcgct tgacttttct tagagctatc gttttcaatg tccagcgtct 360
cgatatattc cagggctcaa tc 382

<210> 19578
<211> 430
<212> DNA
<213> Glycine max.

<400> 19578

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atttgaaatt atttatttga gggtataaaa gtgactaatg aaatttctat aagtttttca 120
ttgtattgga ccttagatgt aacaaaactt ttgttttggg tgctgtcaa gtagtaagta 180
acaatgtagt gtcatatcat cacttagttg acgataaaga ttcaacaaaa gttttgatat 240
atcaagacaa taatgtaacc aaaaaattta ttgaagacc aaataaaaaa attgtcattt 300
atcatgaatt tcacacatat ttaatctttt cttttattta caagagtttc acgttcgaat 360
ttattaataa gctcttattt aataacattc tattgaatag gtgcttcatt aacttcgta 420
cctcaatatt 430

<210> 19579
<211> 428
<212> DNA
<213> Glycine max

<400> 19579

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tcgattacca gtatgtttga acattggaat tcaaatttaa ttgtgaagag tcacatcctt 120

tcacaaaaaa gctttgtgta atcgattaca ctgatttggg aatcaattac cagtgatagt 180
 ttctgaacaa aatcaaaaaga tgtaactcct ccaatagttt tcaagttttt cttaaagtca 240
 taacttttcc aaatgggttt taagtttttc taaagggtat aactcttcta atgggtctct 300
 gactagactt gaagagtcta taaaatcaag gctctgactt gcattttatt taaaaaatac 360
 tcattcattc tttagacaac aaacttttgc caattgcttt ctgaatatct ttgaactcct 420
 tcttcttc 428

<210> 19580
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19580

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 ctatgcaagt tgaaagcctt ggaggaaaaga ggtatgccta tggtgttggt gatgatttct 120
 ccagatttac ctgngtaaac tttatcagag agaaatcaga aacctttgaa gtattcaaag 180
 agttgagtct aagacttcaa agagagaaaag actgtgtcat caagagaatc aggagtgacc 240
 atggcagaga atttgaaaac agcaggttca ctgaattctg cacatctgaa ggcatcactc 300
 atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacagga 360
 ccttgcaaga ggctgctcgg gtcatgc 387

<210> 19581
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 19581

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 aagttattgt cgtttgaatt ggctcagagc ttcaacattc aatttcgagg gtctcgatat 120
 attgcgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcggag 180
 cttcaacatt caatttcaag cgtctcgata tatgacggga ctcaatcaga catccgagta 240
 aaaagttatt gccgttgaa tggcttaaaa ggttaacaat taaatttgaa ccgcctaaa 300

atattacgga actcattcaa acttccgagt aaaacgttat tgcgttgga attgcctaag 360
aggttcaaca ttcaatttcg agcgtctcga ta 392

<210> 19582
<211> 350
<212> DNA
<213> Glycine max

<400> 19582

tgcttttgc agttggaatc atttatacta tctccgacag ccaatgggtg agtctcgtcc 60
agatagtccc gaagaaaacc agcctcaccg tgatcaaaaa tgagaaagag gagttgattc 120
ctactcgggt gcagaacagt tggagagttt gcatcgacta taggagactg aaccagggtta 180
ccaaaaagga ccattttccc ctgccattca ttgaccaaatt gcttgaatgc cttggaggta 240
aatctcacta ctgcttcctt gatggttttt ctgggttatat gcaaatcact attgcccccta 300
acgatcagga aaaaaccaca ttcacttgcc ctttcggcac tttgcctat 350

<210> 19583
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19583

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cattcagtgt caagatgaac aaaggctctc tcaacttcag ggagttcttc gaccttatac 120
tgcaatgatt ctccaattgc atgtgcttct ttcagtggaa gatcctccgg tagttctatg 180
tccacctgtt tatgtccaac atggatacga atttcaaatt agtttatatc aaattccctt 240
taaatttggt aacatcaaat gtgttttatg ttaatacata tcacatggag attgggtaaa 300
gcacatggtc ctacatcaca taagaagttc cttctttatt gagaaaaaca tgttttaagt 360
tcctaaaata ggataaatta ttatataatn tgcgaccaan attatatatt ccgaactagc 420
tntacataat 430

<210> 19584
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19584

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tatgatcttt caagcaacag atacaatcca gggtggagaa atcatccaaa tctgagatag 120
gcaagtcctc cacaacaaca aagccctccc cctttttccc agaagctac tggcccaagc 180
aagccatatt ttctcctccc aatgtagcag cagcaacagc agcagtcaca acaaagacaa 240
taagcaactg aggtcctccc tcaaccttcc ttagaagagt tagtgaggca aatgaccatc 300
cagaatatgc aatttcagca agagacaaaa gcctccattc agagtctgac aaatcagatg 360
gggcagatgg ctactcagtt gaaccaagct tagtccanaa attctgacaa atggccttca 420
caaact 426

<210> 19585
<211> 222
<212> DNA
<213> Glycine max

<400> 19585

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tcttctatct ttatatcgcg aatgcctcta acagccctt tctcaatgat tctcttcatg 120
cctcttaagt gcacatgtcc cgatctttga cgccatattt tgacttcac ctctgtgcac 180
aatacacatg cggaagactg actggccctt tcatgcgtcc at 222

<210> 19586
<211> 385
<212> DNA
<213> Glycine max

<400> 19586

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agccgcctca tactctatcg tcacgaggaa tgtggttgct acgttcatca aaaggagat 120
aatctattgg tatggatcgc ccaggaagat tatcacaac aatggcacca atctgaataa 180
caaaatgatg aaagaaatgt gcgacgagtt caagatccag cagggcaatt ccacgcctta 240
ctagcctaag atgaatgggg cagcacaggc ggccaacaag aatatcaaga agattatcta 300

caacatgact ctgtcatata acgattggca tgaaattctt cctttcatgc tgcattggcta 360
tcgaacctcg gtacacacat caatc 385

<210> 19587
<211> 433
<212> DNA
<213> Glycine max

<400> 19587

tcctcgtggc ttctttgaga agctttcaca agaggcttct ttgagaagct acatccttat 60
ctatccaccc ctctattaac taaattaact tccttaaaaa taattacgga tgaaaataac 120
gcaacaaata atcaaacatc aaacataatt actaataata tatagatata tatatatcag 180
gggtgttaca ctctcccacc ctttttagaaa tttcatcctc gaaatttacc ttactcaaac 240
aaggatgggt gagcttctcg catctgaatt tctaattccc acatggcatc ttctcctgat 300
gcacctcccc atatcacctt gaccaacgaa atctctttcc ctcttaggtg ttttgttcgc 360
caatcctcga tcctcaaagg caatatttca tatgtcaaatt tctccttcac ttgtacatca 420
tccaattcaa tca 433

<210> 19588
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19588

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cctccattag tatagttttc gttcaacaga aattaaacta gtaatatagt cattatagat 120
ctacaatgag ttctttggat ttttgtttta gaatattagg atttaaaacc aactaattaa 180
ataacaatca taggtttcat ttacaattta tatatgtaaa caaattaatt attagatcaa 240
aattaattgt cataaaattt attatataaa ttcagatgta ctttgaatat acataagaca 300
ttgtagtctt atatatagcg acattaatta ttttataaca taattagcat attagttcgg 360
ttgattagag cgaatgcaaa agtcacaggt tcgattcctg cattacccat taattctaga 420
ttcacttatg a 431

<210> 19589
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19589

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cattaagaat tagctctttt cttcctctat tgcctttagt tgagtacacc gttgttcggt 120
tctctattta gttcttaacc ctctcatgca acttctttac aaactcttac ctagattccc 180
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gatggaaccc atagacaacc tcaaaagggg attgcttggt ggttctatga acccccctgt 300
tgtatgaaaa ttctacatga ggaagatcct catcccaaga cttatgggtg cttttcagaa 360
gagcccttan aagggtggat aaagacctat tcactacctt tgtttgccca tcagtttgtg 420
gatgacaagt ggta 434

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<210> 19590
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 19590

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aatcccctcc gccggcgccc gcttcgccct cttegactcc cttgctccgc ctgcgccggt 180
gccgtttccg aagtcgccga tctccgaatc gaagaaggac caatgctgcy aggacgagtc 240
ctgtgaggag aacgcgaagc cgcagagagg gtcgtcaatc tcctgagata aggaatccct 300
gaatggctcc gaaacgtcgt cgtttagaga ggacgagccc gaatacgttc ccgagagggg 360
tcctttgcgg cggccgtatg tgcggacgat catctt 396

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<210> 19591
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19591

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 tagaagaccc caagtagaat gggccacaga tgcaagagaa ggcctatgg ttcttatgag 120
 ccttanggta gattctgggc ccatgggcta agtacgagcc cacttatctt tgtaaattatt 180
 agattaaggt ttcattatct ttgggccttg catttacggc tccataatgt acgtagggta 240
 ccctaqaagt atangatttt tcagcccttg tattttacgg cacctagact agtttttgta 300
 ttacgggtag ttttgtaatc tcacatgcac taagtggata tttgatgtgt gcggctggaa 360
 ataaacttaa ttgaa 375

<210> 19592
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 19592
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 agggaagaat ttttccatga acacctatt aaggatcatcc cagctgaaaa tagacctggg 120
 agcaaggtag tatagccaat cttttaccac tcccttcaga gaatgaggaa aagcctttag 180
 aaagtcatga tcttcttggga catcagggggg cttcatgggtg gaacaaacaa tatggaactc 240
 ctttaagatgt ttatgaggat cttcacctgc aagagcatga aacttgggct gcaaatgtat 300
 tagtccagtc ttgagaacat atggaacacc ctcatcagaa tattgaatgc acaagctttc 360
 ataagtgaat tcaggtgcag ccatctccct aagaatcttc tcacgagggtg gaggttgatc 420
 catgttct 428

<210> 19593
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 19593
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 ggacctccgt gtgaaaagt atgaccattc gaatttcccg agagcttacg ttgtgcattt 180
 tcgagcgtct ctacatgtga tgcgccttaa tcgaacatcc gtgtgaaaag ctatgaccat 240

ttgaatttct ccagagcttc cgttgtccaa tttcgagcct atcgatatgt tatgcgccccg 300
aattggacct tcgtgtgaaa agtcatgacc atttgaattt cactagagct tacgatgttt 360
aatttcgagc gcatccacat attatgcgcc tgaat 395

<210> 19594
<211> 428
<212> DNA
<213> Glycine max

<400> 19594

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ggccttgatt ttctcagggt ccacttggac cccatttcta ccaactacaa aacctaagaa 120
aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgttcttctt 180
aaggactgaa agaacttgtc tgagatgtcc taagtgatca tctacgctcc tactatacac 240
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360
atacaaacca aacttgggtct tgaaagcagt tttccactca tcaccctttt tcacctctgat 420
ttggtgat 428

<210> 19595
<211> 426
<212> DNA
<213> Glycine max

<400> 19595

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ccaaaacatt cacaagggtc tctgcaatga ctctgtcatc ctcatgggga aggaaattct 120
tcttttaggt gcatgataaa aaggatgga gttccaagtg ggaaatacaa gttttatagg 180
tgtgcctagc agtgataaa caaccattgt atcttaatag cagctgctcg aggcatatga 240
taggagacaa atcaaatttc ttgcctctaa aagctaaaga aggaggattt gtaacctttg 300
gtgacaacaa caaagggaga attctcagat acctctttat gatgatgatg atgtaagaag 360
tcctaaagaa tcctctccta caagtgaaaa ggtagtgaac aataaccctt ttgaagaaca 420
cccat 426

<210> 19596
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19596

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 agctgctctc acatcaattt gccgccactc aacgtcaaaa tgagcaccta ctgccaaagat 180
 tatacgacta gaatctttct tacatactgc acaaaaagtc tctttgtcat ctattccttg 240
 cttgcgagtc aatcccttag caacaactct tgccttgat ctcctaattg tgcctaata 300
 atccttttct ggcttaaaga cccacttaca 330

<210> 19597
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19597

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 cacacacatg gcctctattt atagcctaag tgtcacacaa aattggaggg aaatttgaat 180
 ttctattcaa atttcacttg aatttgaaat tgaatttggt gagccaaatt ttggagccaa 240
 aatttcacta attatgatta gtgaatctta gttatgggtc agcccactaa tccaagatca 300
 agtccaagat tgtccactaa gtgtgctttg gtgtcatgag gcatgtaaag catgaaggac 360
 atgcacaaag tgtgactata tgatgtggca atg 393

<210> 19598
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 19598

agcttatgtg taactactct tgatattttt taggctatgt gtttaaattt ttttaaaca 60

aagtagattc agaaaataat tacatttatt attattttga ttaacttctg aatatgggtg 120
 aaatcttatg tgtgtctgac atattaaaca agttaacgtc taatttatgt gattagaata 180
 tgaatctgtc taaccaaatt aagatgttta ataagtaagt ttatttaagt attttatact 240
 tcatagcttg taaggcatta cttatatatc gcatataggt tgcgaactct ctttttatac 300
 tttttatcat tttttttta atacaccttc cttttat 357

<210> 19599
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19599

tgaggggggt tttaaattaa tgggtgtgac ttatgggtat taaatgggta tgttcgactc 60
 ggatgctaac cgatagaacg acatcaatgg aagaccgtgg atgatgttcg attattatct 120
 natggttcat ccatggactt caaaatttgt ggtgacagaa gcaacaatag accaaacctt 180
 ggcttggatc cgttttccaa gtctttggat ggtctatcat gatgagactg tattactgac 240
 cttggcatca actattgcaa caccatcaa ggttgatcta aacatcttga atatgcatag 300
 gggaaagttc gtgcgattat gtgcataaat taatctcaat gtccttgtcg tgggagattt 360
 tgcacaaatg gaaatcgga taatatagaa tatgacgcgc ttcattttct 410

<210> 19600
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19600

agcttcttgt tttttgcatt aaacgacaag aaaagatact agtatatgaa tacatggcta 60
 atggaagcct acactccttt atttttggta cgtaatatga agaatgcttt cataattcga 120
 ttaagtggac ttgcatgttt gcttggttgg tttgcttttt aattccagtc acaattagcg 180
 gctctttaat cttgaatatc ttatattgaa tgaatagctt gctttgtcaa atcacagata 240
 aaataaaggg taaatttctg gattggcctc gacgcttnca cataatattt ggaataactc 300
 gaggacttct gtatcttcat caagattctc gattaacgat tatccataga gatctcaaag 360

caagtaacgt tttacttgat g

381

<210> 19601
<211> 436
<212> DNA
<213> Glycine max

<400> 19601

tgccttgccc cttgatatat ttgagggact catgggcact atgaatgaca aattccttgg 60
gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120
aagttgaata gttaagggta ggaccactta actttttcact aaaataagca attggatggc 180
cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240
atTTTTgaaa gtttggcaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300
tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcacttcat 360
tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420
catgacaact cctcac 436

<210> 19602
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n-locations
<400> 19602

ctgttgcgaa ggtgccccaa ccgtaacttt gatgatgctg cacaactgca tatcttttat 60
agtggttcga aacctcaaac caagatgatc cttgatgcct cagctggagg cactatgatg 120
tccaagagtt cggaggaagc tattaatgta atctccattg gagctttag gactaggata 180
ttcttcatca atggattcct ttgcttcttg gaagatgaat gtcagcggaa tggagaagga 240
agagagagag gagacgccac ttcaaggaga agatgagtct agaagaagct caccaccata 300
agaggccatg gataacagcg tggaggaaga acgagatgaa tgaagggaga gggagagaag 360
agcacgatat tttgcgctca taaagagctc tgaaatctga agtttaatat tcanatgatc 420
aaa 423

<210> 19603
<211> 431

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19603

tctgaaggct caagatacaa tgaaaaagta tgttgtcttt cttttagagg atgtggccta 60
tcaacccaat gatgggtccc tgggtgaaact caaacccac cgataartaa cggccaaagg 120
acctggaaca agttcgggta aacaggacaa gctgttttat ggctcattca gagtgataga 180
acgcattggg gcggcggctt atcgggtcca gttaccagac ggtgctaaga tacattcagt 240
cttcattgct tctctgctta agccattcaa gggttcacca acacaatctg aaattgcata 300
cttaccagca caattcatta atggacaacc tatgatttct cctctcgcta tcctcaatga 360
tcataagggt ccaggatcaa caccagactc ctgngaagtt ctggttcaat ggcaagggtat 420
gtcaccagat a 431

<210> 19604
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19604

tctatagaag gttcgttcct aatttctcta caattgcatt acctctcaat gagctggtga 60
agaagaatgt ggcatttacc tngngtgaaa aacaagatca agcctttgct ttgctcaaag 120
aaaagcttac taaggcacct gttctagctc ttcttgactt ttctaaaact tttgagctag 180
aatttgatgc ctctagagtg ggagttggag ctgtattgtt acaagggtgg caccctattg 240
cttatttttag cgaaaaactt catagtgccca cccttaacta cccacctat gataaagaac 300
tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaatttg 360
tcattcatag tgatcatcaa tcaactaaagt acattagagg gcaaagcaag ttaaacaaga 420
ggcatgcaaa atg 433

<210> 19605
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 19605

agcttgtaat cgattacaca aggcttgcaa tgcattacca gaagtttttg aacgctctaa 60
aacagccttt agaaatttga atttaaattt taaagtctgt aatcgattac agaattgatg 120
taatcgatta ccagagttta aattcaaatt tcaaattgtga agagtcacaa ctctgcagaa 180
aaccaattgtg taattgatta caccattttt ctactcatt accattgaag aattttttaa 240
aataactccc aatagtcaca ttttttcaaa tgattttgaa tggccatcaa aggcctatat 300
atacgtgact tgcgacatga attttctgag agttcttctg aactganatg tcttatcctc 360
tacaaaagat tcctcgtcta acatttgata ttc 393

<210> 19606

<211> 373

<212> DNA

<213> Glycine max

<400> 19606

ttcaaaatat ggctgcagct tttggctttt ccaaacttgc aggtactact atattttattg 60
tattctagtg tcaagaatct cataattaaa tatttttctca tcttatgccca catatataac 120
taatggggat ggtcatttgt atttggtaat aagactcaac aggtgtggca aaagttgtag 180
gttaaggtgg acgaactact tgaggcctga tattaaaaga gggaaatttt cccaagaaga 240
agaacaaaca attctggatc tccatgctgt ccttggaac aagtaaatat tcaacaccac 300
tatagcacct actatttaat gtgttttgat gttaattata tccttaatta aaagactgct 360
cattattatg gat 373

<210> 19607

<211> 435

<212> DNA

<213> Glycine max

<400> 19607

tgcagcacac tagcaaactg agaattattt ggaacattag atgtttgcct cattcgacaa 60
aacaactcca aagcctccct acttttatca ctctgagcat accgcgctat catgagactc 120
caaggaataa gatcatcttt cggcatttct tcaaaaaact gctgcgtctc agcaatctct 180
ccagacttgg ttaacaattc aagcagcaca gtgccaacat aaagatccct atcataacac 240

gctttcaaag cacatccatg aacacttttc ccaacctcaa aattgttcgg tctaaacccc 300
 ataaccctca tctggcagaa aagtagcaac gaatcttcat ggcagtaatt ctcagcatag 360
 caagccatca tcccagtcga agataccatg cccttacaac aaatcccatc ataaacttgg 420
 cacgcagcga taaca 435

<210> 19608
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19608

agcttgaagt gatctctatt ctgatgtgtg tggtcctttt gaagtgaaat ctctaggagg 60
 taacagttac tttatgtcat tcattgatga atttactaga aaaatgtgga cctatctcat 120
 taagcagaaa agtgaagtgt ttaacatttt taagaagttt aagctgtcga gtgaaaaaca 180
 aagtgtagat gcaattggct ttgatgtttt gatgatgac atgatgatgt gttgcaattg 240
 atgcaaattg gcttttcaag attaaaattc aagacaatac ttcaagatta caaggcacia 300
 catcaagatg atcactagaa tattangaag ggaattccta attgaattag caaaggtttg 360
 gccaaagtga ttacaataaa aagtgttttt cacagctttt actctctggg aatcgattac 420
 cagacgatgt aatc 434

<210> 19609
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19609

agtttcttat tcaaggcaca ttcttggtgg cgaagctcct tcttccatgg cttattccct 60
 agtggatggg gcctcttctc acctcttttc ctttgtcttc cgctgaatct ccatggtgaa 120
 aaatcaccat tgaatgaagc tcaaagatcc agcctccata gaagcttcac aagcaagctt 180
 ccatcacttt ctctccctct cctccactc atcttctcct accttcaagc tcttaccat 240
 ggcttcctat gttggtgagc tntttcttga ctcatctttt ccttgaagtg gcgtctccaa 300
 tcacttttct tccatctcca ttctgctacc gttaaacttc aagaagcaag ggactccatt 360

gatgaagatg atccaaggcc tatatgctcc acattgagtt acattacgaa atatacttgt 420
 ttgacaatgt agacaattac 440

<210> 19610
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19610

agcttctgga aggagttcta ctagatgttc tatgcctctt gaaggtggta gtccatgagg 60
 aatctccata ggaaagacat ttttaaattc ctgcaataag gggtgaacac taggagaaat 120
 agaaatagta aactcattag aattatgagt agaaatttta ctgtctttgc aatactgtag 180
 attgagtggg tcatgagcag gtaacatttt cctcacttca ctgcctctg caaaataatt 240
 aacttttctc tcatgtgtat cactctcttc ctcggttgta tcaactcttc tcatattcct 300
 ttgtggcgcc tcaactattt ctttctcttg atctctctct tctctcattc.tgatttgagc 360
 atcacacact tctctaggng atagatgttt aagagt 396

<210> 19611
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 19611

tcagaattca atttcgagcg tctcaataga ttacgggttac tcaatcagac attcgagcaa 60
 aacattattg tcgtttgaat tagctcagag cttcagaatt caatttcgat cgtctcgata 120
 tattacgggt ctcaatcaga catctgagta aaaaagttat tatcgttcga atttgctgag 180
 agcttcaaca ttcaatttcg agcgtctcga tgttttatgg gacttaatca gacatccgag 240
 taaaaagtta ttgccgtttg aatttgctga gagcttcaac attcaatttc gagcatctcg 300
 atatattacg ggactcaatc agacatccga gtaaaaagtt atcgtcgttt gaatttggtc 360
 agagcttcaa cattcaattt ggagcgtata catatattac gggactcaat cagacatccg 420
 agtaaa 426

<210> 19612
 <211> 283

<212> DNA
<213> Glycine max

<400> 19612

tccgaacccg gaacataaga tagcgcgacg ctcgatatag tacaacggac gtgctcaaga 60
aatrccaaag gtcataacit ttcactgaga ggtccaaara tgcaacataa tacatcgaga 120
ccctcgaaaal tgaacaacgg aagctctcca gaaaaacgaa tggtcataac tctgcacttg 180
gatgttagaa tttggaacat aatatatcga gacactcgta atagatcaac ggacgctctc 240
agaaattcaa atggtcataa cttctcccac ggatgtctga atc 283

<210> 19613
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19613

agcttgcttt tgcagtaaag catgaaagac atgcacaaag tgtgactata tgatgtggca 60
atagggtgta gtaagcaa at gctcacctcc ccctctaaaa ttaattgga ttgggcttct 120
accaattcaa ttaaatttat ttcccaacac acatatcaaa tattcactta gtgcatgtga 180
aattacaaaa ctacccttaa tacaaaaact agtctatgtg ccctaaaata caagagctga 240
aaaatcctat atttctaggg taccctacct acattatgga gccctaaata caaggaccaa 300
atataatgac atcctagtct aatatgtata aagataattg gactcaacct tggcctgtgg 360
gctcagacat ctaccctgag gatcatgaga accctanggt cttcttcacc agctatagcc 420
caatcctctt gg 432

<210> 19614
<211> 423
<212> DNA
<213> Glycine max

<400> 19614

tatcataatc gattacatag ttgtttttgt gacaattatt gatttattta ggagtctctg 60
ttttaattga ttaccatgtc atataatcga ttacttttct ttttataagt gtttcagaag 120
taaacaagaa cactttaatc gatttctttg agtatcta at cgattacatt gttcttgagt 180

tgtttctagt tttttggaag aacactacaa ttgattgaaa gataatataa tcaattactt 240
cattgaatta attaattacc ttgtagattt aattgattac aggcggttat aactgttttc 300
tctataaata accacattgt gttctctcta ataacataac attttgagct tctgaaagag 360
ctatgatcac gtgttggtat tagttaaaga aagaagagaa gaaaagtgc tagtcataac 420
etc 480

<210> 19615
<211> 433
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19615

agtttgtata aaattgaaac gacaaa^{aa}aatt tttatctaag atttccgaat aaattccgta 60
gtatatcgag acgctcgaaa ttcaaaataa acctctcagc aaaatgaaac gacaataact 120
ttttactcga atgtccgaat gaatcccgta atatatcgag acgctcgtaa ctgaaaacag 180
aagctctgag caaattcaaa agataataac tttttactcg tacgtccgat tgtttcctgt 240
agtatatcga gaccctcgta attgaaacca gaagcccgta gcaaactcaa acggcaataa 300
atttttactc ggatgcccga atgaatccca taatatatcg aggcgatcgt aattganaac 360
agaagctatg agcaaattca aacgacaata actntntact cggatgtccg aatgaatacc 420
atntaaatcg gat 433

<210> 19616
<211> 429
<212> DNA
<213> Glycine max
<400> 19616

tctggtatca attacgagcg tctcgatata ctactgttac ataatcggac atccgagtaa 60
aaagttatta tcgtttgatt aggctaagag cttgtgtttt gaatttcgag cgtcttgata 120
tattacagga ctcaatcaga aatccgattt aaatggtatt cattcggaca tccgagtaaa 180
aagttattgt cgtttgaatt tgctcatagc ttctgttttc aattacgac gcctcgatat 240
attatgggat tcattcgggc atccgagtaa aaatttattg ccgtttgagt ttgctacggg 300
cttctggttt caattacgag ggtctcgata tactacagga aacaatcgga cgtacgagta 360

acaagttatt atcttttgaa gttgctcaga gcttctgttc tcagttacga gcgtctcgat 420
atattacgg 429

<210> 19617
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19617

agtttgtcat tgaattattn gattncaggc cagggataat ttccattaac ttggacctta 60
agaggggtgc aagtggcagg ttcttgaaga ctgctgctta tggccacttt ggaagagatg 120
accagactt cacatgggag gtggtcaagc ctctaaagtg ggaataatgc catgaataaa 180
gctgattgcc aagaaactat gtttgatctt atatgctttc atacctaaga tccgtgatat 240
gattttgcct tagcttttgt atctttataa ataaataaaa catatatatg tcgagttgag 300
tatatgaaca taaaaggaa gctgcatagc agcatcaatg tactattgga agttaatggt 360
tgagatatat ccgttacgat cgctatccat tatccattat gtttcctctc aattgctgag 420
agtcttagag aatcttga 438

<210> 19618
<211> 363
<212> DNA
<213> Glycine max

<400> 19618

gggagggcga cgcgagactc acgggtgcgt cttccaagaa aggaaaatgc atggagtcgc 60
caccaacgtt tatttgggga aaacatccga aaaaccgaaa aagacgtggt ctacaaactt 120
taagtgtgag gctcgagagt tgtattttacg cacggggaag gtattatcac ctgtagaca 180
agtggcctca gatattctaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc 240
taattaaaaa tctattttat tttttactca agttataaat tcccttaatg acaatcttct 300
taaatattaa ttcaaagaa gcaacttgaa tatgattata tagcaataat atatatagga 360
gat 363

<210> 19619

<211> 436
 <212> DNA
 <213> Glycine max

<400> 19619

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agtttgcctt tgatcatggg tcagacgaat aaggggctga agatcaactc gtagtggctc 60
acgacctaac tcttatagtg gtgaaagaaa cctctgtctc acactatcac aggaaaacgg 120
ttgacatttc accacaagac gagaatttgg aattgcacat agtatctttg cccagacctg 180
cagtaccttg ggtcgtaatc tgaataaata aaacaacatg aatcacggga tacacgactt 240
acctcttaca attaggtatt cataatctaa aatacaagta cgtgatatat ttaacaatat 300
tactaccctt ggcaagattg ttggaactac caattgcaac gaagccattg gtaagagcat 360
gagctggaca aactcgacca gcctcacggg attgagtgtg accaaggaag cattccgggt 420
atcgaactat ctcttc 436
  
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<210> 19620
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19620

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ttcttggatg gccttgattt tctcaggatc cacttggacc ccatttctac caactacaaa 120
acctaagaaa actatattat ctacacaaaa ggtacacttc tctatatttg catagagggt 180
gtttttccta aggactgaaa gaacttgtct gagatgtcct aagtgatcat ctaggctcct 240
actatacact aaaatatcat caaaataaac aactacaaat ctacctatga aatcccttaa 300
gacatgattc ataagcctca taaagggtgt tgggtgcatta gtgagccan naggcacac 360
tagccattca taaaaccaa acttgggtctt gaaagcagtt ntccactcat c 411
  
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<210> 19621
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19621

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acacccaatt ctaacttgcc tttccccata tctactatat agttggccat gaaatttgta 120
gggtcctcct ctatatccat aaccacgaaa tctgcaggaa atacaagctg cttgacttga 180
ataaacacat cctcaatcac tccatacggg ctagtaatgg agcgatcagc caactggagg 240
gtratacatg tgggcattat ctctatctct ccaagtcgcc agcacatga taaaggcatt 300
aaattgatac tagctcccaa gtctatgaga gctntaccta caacaacctc accaatagaa 360
cacggtatag tgacacttcc gggatcatta tgcttcggng gaaggatgcg ttgaatgact 420
gtactacagt tac 433

<210> 19622
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19622

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ttcaaaaaga attttcagcc tagccaacag gtattgttat ttaattccaa attaagattg 120
ttttcaggta agctaaaatc caagtgggtct ggaacattca gcatcaaaga agttatgcta 180
catggagcaa tgataattgg aggatccagc caccaaaaga acatgcatcg tgaatggcag 240
tagaatcaaa ccctacttan gtcgtgattt caagagggtg accactgttg tccaactaca 300
agaggctnga accacaacaa ggatgtccag cttanacgat gttaaataag cgctcttggg 360
aggcaatcta gtatttttca actcttcttt taatattnnn tttctgatta cgtaattgtg 420
ttgtgtaata tcta 434

<210> 19623
<211> 422
<212> DNA
<213> Glycine max
<400> 19623

ttaggaggaa gcaggacatg gacgtcagtt taccgtttag cttctgcact tcctaaacat 60
tggtaggatt gtgaatcact agtatgtttg tgcatttgte ggggttggct tctattccct 120
gatgtctaata catgaacccc aagaactttc caccgcctac cccaaaagtg catttttcca 180

ggttgagcgc catgacgtac ttatggattt ctctgaacac ctcttctaag tatgccacgt 240
 gttaggctat gctttgagac ttgacaatca tgtcctcaac ctagaccttg agattttttc 300
 tgatatgttg tttgaagatc cggcttatca gtcttttagta tgggggtgcct acattttttca 360
 ggccaaaggg catgacccta tagcagaagt tagcatccac aggtatgaat gtcattttct 420
 ct 422

<210> 19624
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19624

ntaacataaa gaacaaaaga ctggcctctg cacgaatatt atacattgag caaacaacac 60
 tgatctcaaa tcggtgataa aattctaatt aatcgcaatt ggaagcttca taacatttaa 120
 tttggataag atttttatatg taattattat ttactttgtc aaataacaaa cttaatgtaa 180
 caatcttatc attagatagt cattgagaag tgaatagaat gaaatgcac ttatttggtt 240
 atttaatttc acctttttca ataactaaaa tatgtataat gtttttctaac tcccgttcta 300
 tctttaaaat gtatcctact cgaactagtt ccctgggcat ttatttatg ggtatttaca 360
 agtttaaata aattttaaaa ataagaatta tatgaaaata tcattattgt tcaataataa 420
 atatcat 427

<210> 19625
 <211> 433
 <212> DNA
 <213> Glycine max
 <400> 19625

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 cagtagagca attatgacct ttccagcaac agagacaacc ctggatggag gaatcaccct 120
 aacctcagat ggtctagccc tcatgaacaa caacaacagc ctgctcctta cttccaaaat 180
 gctgctggcc caagcagacc atacattcct ccaccaatcc aacaacagca acaaccccg 240
 aaacagccaa tagttgaggc ccttcacaaa ccttcctctg aagaacttgt gaggcgaatg 300

actatgcaga acatgcagdt tcagcaagag accatagcct ccattcacag cttaaccaat 360
cagatgggac aattggctac ccaattgaat caacgacagt cccagaattc tgactagctg 420
ccttctcaag ctg 433

<210> 19626
<211> 419
<212> DNA
<213> Glycine max

<400> 19626

tgtcttcaac aaacaaatca aaatcaattt tctgattttc aaaacctagc tccagcttcc 60
ttttcccat atcaactatg cagcttgogg tcaacatgaa tttccttccc aatattatag 120
ggatgtcaat atcttcagag acatccatta ccataaagtc taccgggaag ataaaatatt 180
ttactctgac caaaacatct tcaattactc catatgacct ggtaatggag cggtcacta 240
attgtaaagt cattcaagtg gggcatttcc aactctcca atcttctgca catggagagt 300
ggcatcaaat tgatactggc tcccagggtc ataagagctt ttctacatt gacttctcca 360
attgaacaag gaatcgttac actcccagga tctttatgct tgggtggaag gatcttcta 419

<210> 19627
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19627

tttctttgtg ggttgatgag ttctgtcttg cagaatgtcg tgatcactgg ctgacatatt 60
ctcaattagc ttagttgctt cttccggggg cttcaacttt attttttccc ctgcagaagc 120
atctagtagt tgtgtgggtt gtggtctcaa cccatctatg aacatattca attggattgg 180
ctctgaaaac ccatgggtgg gagttcttct caataaacct ctgaacctct ccaatgcttc 240
actcaaagat tcacagga actgatgaaa tgaagatatt gcagctttcc cttccacagt 300
cttgactct ggcaagtatt tctttaggaa ctnttcaaca acctcttccc aggttttttag 360
actgttacct ttagaggagt gaagccacct cttggcctct cctgccaatg agaatgagaa 420
taggccgag 429

<210> 19628
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 19628

ttctttgagt tgcctaater tctttingtt ggcacttgcg atgaggatgt catteracala 60
 caagagaaga taaagaacac acattttccc ctctttcagg atatatacac agtctgcata 120
 tttgtttcta atgaagccat atctgatcaa gaactcatca aatttcaggt accacattcg 180
 aggactttgc ttcagtccat acaaatatct tttcagcaag cacaccttgt tctccccttc 240
 ttcaaaacct tctggctggt tcatgtaaat ggtttccttt agatttccat ggagaaaagc 300
 tgtttaacat ccagctgttc aagttccaaa tcatactgat ttaccagacc aagtatgatt 360
 ctaaatgagc aatgcttcac aactggtgaa aaaatctcat tgaatcaatc cttcacct 418

<210> 19629
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 19629

agtcttcaac gttcattttc gagcgtctcg ataagttacg ggactcaatc agacatccga 60
 gaaaaaagtt attgtcgttt gaattagctc agaagttcaa cattcaattt cgagcgtctc 120
 gatatgttac gggactcaat cagacatccg agtaaaaagt cattgtcggt tgtattggct 180
 cagagcttca acattcaatt tcgagcgtct cgatatatta cgagcctcaa tcaaacatcc 240
 gagtaaaaat ttatggctcg ttgtattggc tccgagcttc aacgttcatt ttcgagcgtc 300
 tcgataagtt acgggactca atcagacatc cgagaaaaaa gttattgtcg tttgcattag 360
 ctcagaagtt caacattcaa tttcgagcgt ctcgatatgt tacgggactc aatcagacat 420
 ccgagttaaa agtta 435

<210> 19630
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19630

ttcagccaat tcacccgaca ataacttttt actcggatgt ctgattgagt cccgtaatat 60
 aacgagacgc tcgaaattga atgttgaagc tctgaactag ttcaaacgac aataactttt 120
 tactcggatg tctgattgag tcccgtata tatggatacg ctcgaaattg aatgttgaat 180
 ctcaaagcca attcaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
 ataacgagac gtctgaaatt gaataatgaa gtctcgaact agttcaaagc acaataactt 300
 ttactcggg tgtctgattg agtcccgtaa tatatcaaga cgctcgaaat tgaatgttga 360
 ccctctgagc atattcaaac gacaataact ttnttctcgg atgtttgatt gagtcccgt 420
 atatatcgag 430

<210> 19631
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 19631

taagggctct tagtggcata atcacacatt atattttgta cctctaaaaa tatcatatga 60
 tataagaatc aaacttatat aatttcctac caactaaaca tgtgatgatt aaagcctatg 120
 aataatattt taatttcttt attagataat aataataata ataaatatcc ttgaatacat 180
 cgtctcgaag ttgcatacat acgtagccac aaataaatgt tacatatgta aattatatca 240
 cagtaattct aaagaataaa taatcttttt aaaaggacaa ttttgatata ttcatatatc 300
 tttaagtaga tataattttt aaaacataag atgattatag gtattttgct agatatcata 360
 tagagataat gatataattaa agttgatgta acatatcctt gcctaagtga tcaact 415

<210> 19632
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 19632

tttcaagctt gccttgcccc ttgatataatt cgaggggactc atggtcacta tgaatgacaa 60
 attccttggg ataaaggtag tgttgccatg ttttcaaagc ccgcactaag gcatacaact 120
 ccttatcata agttgaatag ttaagggtag gaccacttaa cttttcacta aaataagcaa 180
 ttggatggcc ttcttgcac aacacagccc caatcccaac atttgaagca tcacactcaa 240

tttcaaaaga tttttgacaa gttggcaacg caagtatggg ggcattagtt agcttttgct 300
taagaacatt gaaagcttct tcttgtttct ctcccatgt gaaaccaaca t 351

<210> 19633
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19633

ntagctttgt cccaaggct tcatgtagac ttgtccttta tcgttaagng aacctcggat 60
ccctatctaa tacaatacta gaaggaattc catgcaacct tactactccc ttgatgtaca 120
actccactag ctctacatt ctatacttca tattcaccgg aataaaatga gcagatttgg 180
tgagtcgac tactatgacc cacacaacat catgtccacg actagtcttg ggtaaaactag 240
atacaaaatc catagatatg ctctcccat tccattccgg aatttccaat ggcttcaatt 300
ctcctgatgg tcgctggtgc tcagccttag cpttttgaca tgtcaaacat cttgctacat 360
attcagctac atctttcttc atgcccacgc caccaaaact tctcttcaaa tcttggtaca 420
tcttagtcat t 431

<210> 19634
<211> 327
<212> DNA
<213> Glycine max

<400> 19634

gaatctgtac ttcctaagag ggagcgccac ccactccacg tcattacaaa ctacctcatt 60
tcttctctta tagcccttag ccgaatacac cttcgatagg gtctctatct gacgcttaac 120
cctctcatgc aacttggtta caaactctga cctacattac ctttctttat gtataaaata 180
agtgtcgagt gggaggggaa tgatgtctac aggcgactag ggattgaacc catagacaac 240
ctcaacacga gatagcttga tggttctatg aaccccccta tatgaggcga agtgtacatg 300
acgaagatac tcatccaag acttatg 327

<210> 19635
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19635

gcttgagaca ttcattcata ggggactgag aagagagggt ttgttcttat tcaaggctcgg 60
atgatgaaya ggcagttcgg ctttgtaaag acagaaaagaa gttcatcaga caagctggtg 120
aacatadnac tcaatttggc acgggacaca tagcatatcat aqaatctctt aaaaggggtt 180
cagctgcact tcgcaattac attgaaggcg atgagcctcg cgagttctca ttagacacag 240
tcatcacccc acctttcacg cctgtgaaga ggaaaactgg ctcaggattc attcccatat 300
cagcanaacc ctttgctaca acaggagcaa ttgagtttgg gatctgacca aactctactt 360
tgaaagtga t taccttagg cctggtggta acccagcaat ttcagttgag gaaaggcctc 420
aatccccgga 430

<210> 19636
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19636

tgtcacttat agtngatgct tatgtcatct cttcatttga tatgcaaaca ggtggctttt 60
acttatgaag atggacgccc tgtagaagggt atgggtgtag ggagaaagat aatagatagg 120
gtgcaggaga catatcattc tgacttaaata ggtaaggact ttgcatatga tggggagaaa 180
agtctgttta ctgttggtc tcttcctcaa aacaagcttg agtttgaagt tgttcttgag 240
gatgtcacct ctaacacgta gaagtaatta gagagcattt agttgttggt ttggctcttc 300
aaattggttt tcgtactatt gtttcaatag cctatgattt attttttgtc ttctatgaat 360
aatggcaatt gcagccctga tgggtctatgg gacaatgaga gtgactcaaa gaggatgcga 420
ccc 423

<210> 19637
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19637

agcttcgtta ttcagctcta gtgctggacc ttgccgtgac tttttgcttc ctggaccacc 60
atgatatcaa gtttgagcca agaaagatag ctgctcctga tgtggaacgt ctttcatcaa 120
tatctgatgc ccaatcaaca tcatagaaag catagagtgc catacgttgt gaaacagaag 180
cagggcgaag gaataaacca tgacaaatag tacccttgag atatcttaat atccttttga 240
ccacaacgca atgagaatcc aatgaattag ccatatactg acaaaccta ttaacatcat 300
acctaattct acgtctagta tgggtagcat actggagggc acnactact ga 352

<210> 19638
<211> 423
<212> DNA
<213> Glycine max

<400> 19638

taacaccgat gactatccca acatagctac tgagtatgga atcagaagca tatcaactgt 60
tttgttcttc aaaaatggag aaaagaaaga aagcgtagtt ggtgcagttc ccaagtccac 120
tttgtccgca acagtggaga aatatgttga tgtataaact ggaaaggaag aaaatgctat 180
aacaaggaac gcttgatcat aaattatgga ccatcttgct tttaatgggt ttcaacactt 240
caaaaagtac tttgtatcca catcttttac aacatttggt aaagattaca ttgtataaat 300
tccctcttct cttctctgct gttccttctg ccatacatta cagttcactt cgccaaattc 360
tcatgccaaag ttaatttggc accattactc caggtttggg agtaaactga aatttcaatg 420
tct 423

<210> 19639
<211> 426
<212> DNA
<213> Glycine max

<400> 19639

tgaaggtgtg tagccaccca ttttttcata gtagaattct ggttatgtgt ctactatcat 60
tgtcatcatt ttttttctcc gtcattgagg tgccacttga gctgccaggt ctctccacct 120
ttgggcgtat ttttttgaaa gatctgtgcc ccctttttgc acatgttttg tagttgcac 180
ctatccgaag acattatact aacactgcct aacgaaggca accactaggt cttccaaga 240
atggactcgg gaaggttcca agttagtgtg ccaggtaaca gctaccctag taagactttc 300

ttggaaggaa tgtatcaaca attcctcatc ttttgcgtat gcccccatct tccgataata 360
catctttaga tggttcttgg ggcaagtagt ccccttgtag ttgtcaaagt ccagcacctt 420
gaactt 426

<210> 19640
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19640

taagaataac atnnttttta atttggtttg attggaataa tattttatta tatatatatg 60
tgcaatataa aaatagaaaa aaataaaaaa gtataaacta cgtacaaaaa taaatgtacc 120
acagaaatca tatactttta aatgtttaat attcatttat attacatcaa ttttttttaa 180
aaaactaaca actaaattga ccgaaaatta catcaattaa cataattgga gtgtgaatgt 240
gtacaaaatg aattaattgt aattagataa tataaattat tcaaataaa aatgcttcat 300
ataaattcgt gtatcattat ttttaggttt tcatagttct aagtgttttt actatttaaa 360
attattcatc attttcacct tatttttggt tactaattaa tatgtttata ttatatattt 420
cactcatcat ttttaattg 439

<210> 19641
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19641

agttttattta ttttataata agagaacaat gacaattgaa gagttgattc atgtttactt 60
tgatgagtct aatgtttttt ctccaagaaa ggatatttta gatgatattg cagaatcttt 120
agaacaaatg cacattcata gacaagattc taaaggaaaa agagaaggaa gcaatgaaga 180
tcctccagta gatgtcaaag caaataatga tcttccaaga gaatggaaag cttanggaga 240
tcatccccctt gacaacatta ttggtgatac ctcanaaggg gtaacaacta gacactctct 300
caaatattta tccaataaca tggcttttgt atctacgac gaacctaana atctanatga 360
agccataata gatgcaaag ggataatagc tatgcaagaa gaaactatac caattg 416

<210> 19642
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 19642

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agttaattta taacacaaacc ctaaacccca atttgcctaaa taccatttaa accccaatca 60
gtcaagtaat cctaaacctt tgtctttcaa atacccttaa accataacaa ccaaagtaac 120
cctaaagtct aatttatcaa ataaccataa accctaatta gttaagtaca cataaacctt 180
aattagtcaa atacacataa accccaattt gtcaagtaaa cctaattagt taaacaccca 240
taaaccctaa tttttcatgt atcccatgaa tcctaaattt tcaaataccc ctaaatagtg 300
attaatcaag taactctaaa ttgtctcata atcctaaacc ctaattggtc aagtaacact 360
aaagcttaaa ttttcacata cccataaacc ctaattaagt caaataaccc taaacctaata 420
tggtcaagta acac 434

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<210> 19643
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 19643

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taaactaaat tttagggcat gttaggccca ttgctattgtg caacacttgg gcaacacttg 60
agaatcccaa tagcaagcta ttgtgttgga ctcttccctt caaaaaagta atttaatatc 120
atgtgaatca ttgaccaca tatcagatat taatctgata agaacagata ctacactcga 180
tcttagccaa aaggccgaga aaggcatgag ttgcaatgtc ttgagaggct ctctttatac 240
cgaaacatca agtcattggt atcttttcta agcgatgtag gatttcaatc acagtttaac 300
attggacatt gatataattc atgctcgttg gtgcaaacaa gggtgatttt gatgaatgca 360
ttgaattaaa aagaaatcat gtcgagtggg ttgtgagacgg catgttcttg ttctgtgttg 420

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<210> 19644
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 19644

tcttagtttc agatgatgca catgagtttg tagctacctc atgcactcct ctaatgacta 60
tagcatcatt tttggcgcta aactgttggg agttggaagc catcttctca attaaattcc 120
tggcttcagc aggggtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
tctccatgtt attgagtcct tcataaaaaat attggagaag aagctgctca caaatctggt 240
ggtgaaggca actggtgcat aattttttta atctctccca atattcatac aggccttctc 300
cactgagttg cctaattgct aaaatatact ttctgatggc cgtggtccta gaagcacgga 360
aaagtttttc taagaatact ctcttgaggc atcccagctc gtgatgga 408

<210> 19645
<211> 430
<212> DNA
<213> Glycine max

<400> 19645
tgtaatcgat tacacatata ctgtaatcga ttaccagagc agattttcag aaaatattct 60
caacagtcac atcttttatg tggttcttga atggctatca aaggcctata tatatgtgac 120
ttaagacacg aatttgctaa gagtttttca gaacaaaaag gtcttatcct cttaaaaagc 180
aaatcgtttt atcctcttac aaattccttg gccaaattac ttgtgattca ataaggaatt 240
atgtgagtac tcaaattggt caatctatct ctttcaagag agatttcttc ttctcttctt 300
cttcattctg aaaagggatt aagagaccga gggctctctg ttgtgaaaga attctaaaca 360
caaaggaagg gttgtccttg tgtgtttaga acttgtaaaa ggaatttaca agatagtgga 420
actctcaagc 430

<210> 19646
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19646

agcttcaaca tcagaccact tccaggggtg tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120
ccagatttac ctgngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240

atggcagaga gtttgaaaac agcaagttta ctgaattctg cacatctgaa ggcatcactc 300
atgagttctc tgcagccatt acaccacaac aaaatggcat agttganagg aaaaatagga 360
ctttgcanga agctgctang gtcattgcttc atgccanaga acttccttat aatctctggg 420
ctgaagccat gaacacagca t 441

<210> 19647
<211> 405
<212> DNA
<213> Glycine max

<400> 19647

tgtaggcctt ggatcttctt catcaatgga gtcctttgct tcttgaagat caatggcagc 60
agaatggaga aggaggaaag ctgattggag acgccacttc aaggagaaga tgagtcaaga 120
acaagctcac aaccatagga agccatggat aagagcttta aggtagaaga tgagtggagg 180
gagaaggaga gaaggaacac aaaattttat gtcccaaag aggtcagaac tttgaagtgt 240
aattcccaaa tgatcaaagt tgaaaaacta cacacataag acctctatct atagcttaag 300
tgtcacacaa aattggaggg aaatttgaat tctattcaaa tttcacttga atttgaattt 360
gaatttgtgg agccaaattt ggagccaaaa tttcactaat tatga 405

<210> 19648
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19648

tattattggt tggagtttaa aacctgaaac tcatgagagg tagtaagaga agaggaagca 60
tgcgatgac atgatgatgg gccttacgtt gggccttgga ctcatcgtgg gcccaccaa 120
cggagtacct cgcgtaacac ttcccagaaa acatgtcacc gtaatccgct gtgccgcaat 180
cgctcttcag gcgcgagatc gcctccgcca cgcagtcttg gcaactcccc tagctcaagt 240
cgccggtgca ctgcgccacg ccgtgtaccc caccggaccc accgacgcga aagttccac 300
cggcggcggc gaggccggcg agcacggcgt cgcggctccc catggcgctcg gngttgtacc 360
cgaccgacgg cccgcacttc ttcagcacca ccgtc 395

<210> 19649
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 19649

tcagcttcgag ggtagtggtg aaaaacagaa ttaataattct gattctacta afaattgtaa 60
 tttataggga cattatattt gatttagagg aaacaaaata tcctctattt atgtaccact 120
 aatgtaatta tcctatataa acaagcattt gttgtgtact ctgatacacg gttttcactc 180
 tagtatccct ctttattttc tctcatttta cagatatgat ttgatcacga taaataggga 240
 aatttctcag ctgataatta aggattatac acattattag tggttatgat tccttatatt 300
 gtactcttga ttcattataa atcagaataa catgtgcaac acaactacat aattacagta 360
 aataacattg ttatattgag taatattctg agtgctgacc acaactacat aagtgc 416

<210> 19650
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 19650

tgaatcggac ctcaagtgtga aaagttatga ccatttgaat ttctcgagag ctttcgttgt 60
 tcaatgtcga gcatctcgac atattatgcg ctcgaaacag acatccgtgt gaaaagttat 120
 gaccatttga atttctcgag agcttccgat gtttaatttc gagcctctcg acatattatg 180
 cgcccgaatc ggacatccgt gtgaaaagtt atgaacattt gaatttctcg agagcttccg 240
 atgttgaatt tcgagcctct cgacatatta tgcgcccga tgggacatcc gtgtgaaaag 300
 ttatgaccat ttgaatttct cgagagcttc cgatgtttta tttcgagcga ctcgatatat 360
 ta 362

<210> 19651
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19651

ntgngactat tcacacaatt taacaagaaa caatgaagga tcaactgtga aaattaattg 60

cattcccata cctagatctc ctctctaaatt ccaccgaatt tatatatgtt taaatgcatg 120
gaagcaagga ttcaagacta gctgtggatc ttttattggt cttgatgggt gttttttgaa 180
aggctactat ggtgatcatt tgcttgcagc agcgggacaa gatgcaaaca atgcattttt 240
tgtgattgct tatgcggtag taaalgttga agataaagat aactygaagt ggttcctcac 300
attgttacat gaagaccttg gagactgcaa gcaatcatggc tgaaatttta tggtagacal 360
ccaaaaagtg caattcaatt gttttgcttt gatcaattca tatatagaat gttgtaattn 420
tgattgcctg catgcata 438

<210> 19652
<211> 307
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19652

tgcttgctaa cccatggaag ctccctaatat ctcccacact ctatggtgtg ggccattctt 60
ggatggcctt gattntctca aggtccactt ggaccccat tctaccaact acaaaaccta 120
agaaaactat attatctaca caaaaggtag acttctctat atttgcatag aggggtgtact 180
tcctaaagac tgaaagaact tgcttgagat gtccctaagt atcatctaag ctccactgtt 240
acactagaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc ctttagacat 300
gatgcat 307

<210> 19653
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19653

agcttagctg tagcatttag taaaaaaaaa aaaagttggg gacagtgtgt ttcttttatc 60
tgtcaacttt ctcccgtttt ctcaattaaa atggggttaa tgatgaccca cgttatggaa 120
acaaattatt gttctcacat aaattttgta tccattcgct taatcaacaa catcatcgct 180
aaagagctta nattggtggg catcaagaac caatttcctt atagaagaga atgcgcccat 240
tattccaaca cccgtgaaga ccaccataat tgaggtgtta atccaataag tgaaggatga 300

ttttggaggc ttgtatgtca tgttgtacat aagcataggc agaacgaaat ccanagggat 360
gaaaccaatg gcaccaacca caccgttgat gtctccaaaa aatggcagca tagctgccac 420
a 421

<210> J1674
<211> 409
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19654

tattctgagc atgattcctc ctaatttcca tgcccaaat ctttttagtt gctcccatat 60
ctttcatctc aaattcacta ttaaaaagtg acttcagttt ccgaatttca aacttgtgtc 120
aagatactat gggcatgtcg tccacataga gaagtagata aatgtatgca ccacccctca 180
ccttactatg ataaacacat gaatcatatg gacttttatt gtacccatga gagataatta 240
actaatcgaa tctcttgtac cattgtcttg gagattgctt caatccataa agagaccttt 300
acaacctaca aataaaatct tcctttcctt gcacttcaaa accttttggt tgtttcataa 360
aaatttcttc ctcccactat tccatggaga aaangttggt tcacatcaa 409

<210> 19655
<211> 439
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19655

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aatgcagttt gataccataa ggaatcataa cctccaatta aacttagaaa aatgattttt 120
caaagtacat gccgagaagt tcttaggttt tatgttgaca aagaggggaa ttgagggtaa 180
cccaaataaa tgcaaggcca tcatgaaaat gagaattcca agaacggta aagaagttaa 240
caactcatag ggaagatcat gtccctgtct tggttcttat caaaatcgac agagaaggaa 300
ctccctctgc ttaagtgatt tcggaagaac aagcacttcc aatgggtgct agattgtgag 360
aatgccttca aacaattcaa ggaattcctc acaacactac ccattntaac aaggccgaaa 420
tcgaaaggct ctatacttg 439

<210> 19656
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19656

tgtaagagct tggtcacttc cttnttcacc acatctagaa tgacgnggtt gagtcgtcgc 60
 tgtggctacc tcaactggctt agctgcatcc tctaaaagta tcctatgcat gcaggtagat 120
 gggctaatac caggaatgtc tgctaaagtc catccaatgg ctttcttggtg cttcttgagc 180
 accggcaaca acttctcctc ttgctcaaca tcaagggaag cagagatgat cactgggaaat 240
 ttgatgcaat cctaccccg c aagggcattg gatagaagac tccaagtaga ttgggccaga 300
 gatccaaggg aaggccctag ggttctcatg agccttaagg tagattntga gcccatgggc 360
 taagtatgag cccgcttatc tttgtaatta ttagaat 397

<210> 19657
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19657

agcttatagt cactacttgt taagaaccat aagccagagt cgattgttcc tttgataaaag 60
 tgaagaattt gttttgcagc cttgaaatga gtagtgggta gagtctcgat gtattggctg 120
 atgagtactc cagtagcata tataatgttt ggtcttggtg gtcaaataac ataaactacc 180
 caccaaactc ttgaaatcta tagcatccag ttttcttgct tcgtcgaact ttgataactt 240
 cattntgcac tccatcagtg ttccaattgg cttgcatcta tccatcttga atntattaag 300
 catcttcttt gcgtagcttt gcagtgaaat gaagatttca tcttctttct gctntacctc 360
 aatggcaaga tagtatgaca tttttccgat atcgggtcatc tcanacttct tcatcatttc 420
 tttcttanac tctgataatt gt 442

<210> 19658
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 19658

ttgcagcctc gaaatgatta gaggctagag tctctatgta taggctgatg agtactccag 60
caccatataat aatgattggc cctgtcgtgt caaatatcat aaactaccca ccatactctt 120
gaaatcctata gcatacagct ttcttgcttc gtctgaacttc gataacttca ttctgcactc 180
catcagtgat gcaattggct tgcctctctc catcttgaat ttattaagca tcttccttgc 240
gtagctttgc agggaaatga agaattcctc ttctttctgc ttacctcaa tggcaagata 300
gtatgaca 308

<210> 19659

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19659

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccctggc ttattcccta 60
gtggatggcg cctcctctca cctcttttcc tttgtcttcc actgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc anagatccaa cctccataga agccccacaa 180
tcaagcttcc atcagttgta gacccttaag accaagaaaa gacagcttcc acatgtccct 240
ttggtgtttt tgcttattgc cgaatgccat tggggttatg taatgctcct gctacgttcc 300
aaagatgtat gatggctatc tttgctgaca tggtagagaa gtgcattgaa gtctttatgg 360
atgaattttc agtctttggc gcatctt 387

<210> 19660

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19660

tgtagcaaat gcaaacggca ataacgttnt actcggatgt tgcattgagt cacgtaatac 60
atcgaaacgc tcgaaattga aaacagaagc tctgtgcaaa ttcaaacgac aatacatttt 120
aactcggatg tccgattgag tcccgttaata tatcaagaca ctcgaaattg agaataaaaag 180
ctctgaacaa attcaaacga caataacttt ttactcggat gtccgattga gtccagtaat 240

atatctagac actcgaaatt gagaatagaa gagctgagca aattcaaacg acaataactt 300
 ttactcgga tgtccgatgg agtcccgagc gtctcgatat attatgcgcc taaattggac 360
 atccgagtta aaagttatga caattttaat tgc 393

<210> 19661
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19661

agctntaact cggatgtccg attcangcgc ataatatatc gagacacttg atattgaata 60
 acagaagctc tcgagaaatt cgaatgggtca taacttttca cacggatgtc cgattcgggc 120
 gcataatatg tcgagacgct cgaaattgaa caacggaagc tctcgagaaa ttctaattgg 180
 cataactttt cactcggatg accggatcaa ggcgataata tatcgagacg ctcgaaattg 240
 aacaacggaa gcttccgaga aattcaaattg gtcataaact ttaactcaga ggcccgatc 300
 atgcgcataa tatatcgaga cgcttcgaat tgaacatcgg aagctctcta gaaattcaaa 360
 tggtcataaa ctttcacttg gaggtccgat tc 392

<210> 19662
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19662

agcttatgtt gcaaacattt aaaatagacc tcctcagcag caaaaccaac aacaacagaa 60
 taattatgac ctttcaagca acagatacaa tccagggttg aggaatcatc caaatctgag 120
 atggacaagt cctccacaac aacaacaacc tgtccctcct tttccagaat gttgctggtc 180
 caagcaagcc atatgttcct cctccaatgc agcaacaaca gcagcagtca caacaaagac 240
 aacaaggaac tgaggctcct cctcaacctt ccttagaaga gttagtgagg caaatgacca 300
 tccagaatat gcaatttcag caagagacaa gagcctccat tcagagtctg acaaatcaga 360
 tggngcagat ggctactcag ttgaaccaag ctcagtccca aaattctgac aaattgcctt 420
 cacaact 428

<210> 19663
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19663

agctntcaat gtacaaacat ttagtatata caactcttat agagacagac acaatacagc 60
 agtcacaggc attgaactac tccattgtga ttgcatggat catgagtata taagtatcat 120
 cacatattca catatatctc atttatgatt acttattatg cacatacctg tctgtccatc 180
 caagcaacac tgtgacagat cacccaagca ggttgaatat tctgggggag gactaggata 240
 ctgcgccagg caatatgata cccaactact ctcttctgca ttggaagctg tggatgcata 300
 tatattgata tgttaggtaa taagacctgc tatgagtact ccacatacac atgcctcc 358

<210> 19664
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19664

tcaacattca attntgagcg tctcgcaata ttacgggact caatcagaca tccgagtaaa 60
 aagatattgt cgcttggatt ggctcataga atcaacattc aatatcgagc gtctcaatat 120
 attacgggac tcattcagac atccgagtaa aaagttattg tcgtttgaat tagctcagag 180
 cttcaacaat caatttcgag cgtctagata tatgacgaga ctgagtcaga catccgagta 240
 aaaagttatt gtcggctgaa ttggctcaga gcttcaacat tcaatttcga gcgtctcgat 300
 atatgacggg actcaatcat acatccgaga tgaaagttat tgctgtttga atttgctcag 360
 aggttcaaca ttcaatttcg agcgtctcga tatatgacaa gactcaatc 409

<210> 19665
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19665

agcttcttca taaacgtggc atttgtgtgc aatacataat gcctaaaaca ccacaacaaa 60
atggtgtatc agaaaggcgt aatagaactt taatggatat gattaggagt atgttaatca 120
attcaacttt actcgtattt ttgtggatgt atgccttgaa aactgccatg tatttgttga 180
atagggttcc tagtaaggca gttccaaaga caccttttga actgtggatg aataggacac 240
ctagtataag gacatgcac atttgggggt gccagacaga aataaggatt tataatcgc 300
aagagagaaa atnggatgca agaacaatca gtgaatattt catttggtat ccaaaaaagt 360
catgngtcat atgttttttt gcctaatacat agtatgagaa ttggtgaaac tggaaatgca 420
nggttactga aaatg 435

<210> 19666
<211> 246
<212> DNA
<213> Glycine max

<400> 19666

tctcgatata tgatgtcccg gagtcggaca tccgagcgag atgttatgac cattcacata 60
tctcgagagc tagcgatgtt caatggggag cgacaccatg tataatgtcc gcgaatcgct 120
catgcgcgtg aacagtcatg accattccaa tttctcgaga gctatcgttg gtcaatgaca 180
accggctata taactaatga cccaactcc agcatccgag cgaatagtta ggacccttca 240
cctttc 246

<210> 19667
<211> 397
<212> DNA
<213> Glycine max

<400> 19667

tgaatcggac ctcaagtgtca aaagttatga ccatttgaat ttctcgagag cttccgtggg 60
tcaatttcga gcatctcgac atattatgtg cccgaatctg actttcgtgt gataagctct 120
gaccatttga atttctcgag agcttccgat gctcaatttc gagcgtctca atatattgtc 180
cgctgaatc ggagctcagt gtgaaaagct atgaccattt gtatttgtcg aatgcttcc 240
tggttcaatt tcaagcatct ccgaataatt atagtcttga gtctaacctc cgtgtgaaaa 300
gatgtgacca ttcgaatctc tcgagagctt gcgttgatca ctttcgagcg tctctgtata 360

ttatgcgccc gaatcagaca tccgggtgag aagtcac

397

<210> 19668
<211> 430
<212> DNA
<213> Glycine max

<400> 19668

ttcttagcta cacacacgcc tctcataact gagctcacct ccttgagaag cttccttaag 60
aagattccta aagaagctag agtttaacta cacatacctc tctaatagct aagttcacct 120
ccttgagatg agaagctaga acttagctac acaccccta tagtagctaa gctcaccccc 180
atgacaaact acatgagaat acgaaataaa tccctactac gaagactact cagaatgcct 240
cgaaatacaa ggctgaaacc ctatactact agagtggcca caatacattg cccagacgaa 300
ggagtaacct attctaatat ttacaaagat aagcgggctc atacttagcc catgggctct 360
taatctagcc taatgctcat gagaacacta gggccgttcc ttgtatctct ggcccaatct 420
acttgagtc 430

<210> 19669
<211> 403
<212> DNA
<213> Glycine max

<400> 19669

tataggatac taaggtaatt tgagcatcca ttctggtgct accaagatgt atcatgattt 60
aaagacgatg ttttggtggc ccaacataaa gagagagggtt attgagtttg tgtatgcatg 120
cctagtctgt cagaaggcta agatagaaca ttagagacct tcaaggaagt tacaaccctt 180
agagataccc tagtggaagg gggacagtat ttccatggat tttgtggtag gactacctag 240
gacccctaga ggcttagatt ctatctgggt tattctcgat agattgacta agtctgctca 300
cttcattccc attaatatca gatcttcctt ggaaaagttg actaccttgt atataagtga 360
gggtttcaag ttacatggtg tgccatctag catagtatct gat 403

<210> 19670
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19670

gtgagccaat acaaacgaca ataagttntt actgggatgt ctgattgagt ccagtcatat 60
atcgagacgc tcgaaattga atgttgaaac cctaagctaa ttcaaacgac aataaatttt 120
tactcagatg tctgattgag tcccgtaaca taccgagacg ctcgaaattg aatggtgaag 180
ctctgagcta attcaaacga ccataatctt ttactcgggt atctgattaa gtcccgtaac 240
atatcgagat gctcgaaatt gaatgttgaa gctctcagcc aattcaaacg ataataactt 300
tttactcgga tgtctgattg agtcccgtaa tataacgaga cgctcgaaat tgaatgatga 360
acctctaagc caattcatat gacaatatct ttntactcgg atgtttgaat gagtcc 416

<210> 19671
<211> 414
<212> DNA
<213> Glycine max

<400> 19671

agcttcaaca ttcaatttcg agcgtctcga tatatgacgg gactcaatca gacatccgag 60
taaaaagtta ttgtcgtttg aatttgc tca gagcatcaac attcaatttc gagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaatttgctt 180
agaggggtcaa cattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240
agtaaaaaga tattgtcggt tgaattggct gagagcttca acattcaatt tcgagcgtct 300
cgatatatga cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tgagagcttc aacattcaat ttcgagcgtc tcgatatatt acgggactca atca 414

<210> 19672
<211> 401
<212> DNA
<213> Glycine max

<400> 19672

tgacagtgtt tgatgcatca ggaacaatt tcactttagt agtgggtcct aattggattc 60
ctaattttca acttacctat ttggatgtga catcatggca gataggtccc aactttccgt 120
cgtggattca gtcacaaaac aaacttcaat atgttggact gtctaacacg gggattttag 180
attttattcc cacttggttc tgggaagcac attctcaggt tttgtattta aacctctctc 240

ataatcatat ccgtggtgag cttgtgacta caataaaaaa tccaatatct atccaaactg 300
 ttgatctaag cacaaatcat ttatgtggta aattacccta tctttcaa at gctgtgtata 360
 ggtagacct ttcaaccaat tcattctctg gatccatgca a 401

<210> 19673
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19673

tctagaattn ttgtcagctg catcaaaatg ggaggcaact tgaggttttt gagtctttgc 60
 atcaactcat gctcaacttt agcttggctt ttatgttaac agttgcccaa aaatagagca 120
 aatcgatttg aaatttgttc atgaccatata ccataatgct ccataactag cagctgcatt 180
 aataagaatg cactttcatg actgttttgt aagggtatgc gctccaatct ttaagcttct 240
 ttcattttta cttaacaagt acaatgttat tgtagatta aggttaagga gctaactaag 300
 atgaagcatt tcagggatgt gatgcatcag cccttttgaa ctcaacaacc aatcaggttg 360
 agaagaatgc tcgtccaaat cttacagtaa gaggctttga cttcattggc attataa 417

<210> 19674
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19674

agcttaagct cttcaactg cacaaggctc ttaatatattg aagagtatcc ttgtggaacc 60
 ttcacccgac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120
 gctgnnggca agtaaatttt cttcccatca gaccttgaat gcaactgtga tcgtataccc 180
 atatcagcta gatcttgacg ggtattcaag tcataccttcg tcttgccttg aatgttaagg 240
 agcgtcccaa tcacactgtc acaaacattn ttctccacat gcataacatc aatacaatgt 300
 ctaacatcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt cttccatagt 360
 caactctgac ttttatcctt cttttgggtc ttccanata cagtattcag gtgttgaacc 420
 cgctgatata cct 433

<210> 19675
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19675

agcttatgct gcagacatct ataatagaac ccttcagcag canaaccaac aacaacagaa 60
 taattatgat cttttaagga acatatacaa tctatgttgg agaaatcatg canatctgag 120
 atgggcaagt actccaaaac aacaacaacc tgccctcct ttccagaatg ctactggtcc 180
 aagcaagcca tatgttccta ctgcaatgca acaacagcag cagcagtcac aacaaagaca 240
 acaattaact gaggtcctc ctcaaccttc cttagaagag ttagtgaggc aaatgaccat 300
 ccagaatatg caatttcagc aagagacaaa agactccatt cagagtctaa caaatcagat 360
 ggggcagatg gttactcagt tgaaccaagc tcagtcccaa aattctgaca a 411

<210> 19676
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19676

agcttctcat ttgatccaac agaggaggag catacaaact atttcactca agtcactagc 60
 ataagagact tggtcattac tatcttgaaa gaattctaaa catgaaaaaa gggacatgtc 120
 aaaaggtcta ccaatacttt ctgatagttt gccaaactat catgcttgtc aatttggtaa 180
 aaaaaacaaa aaatcattcc ccaaatcatc ttggagagcc tctcataagt ttagctaat 240
 tcacactgat gtgataggac ctcaaagaac accatcacta caaggtagtc tctactttat 300
 tcatttcata gatgactnta caagaatgtg ctggattntt tttcttgaaa ttcaagcatg 360
 aagtggctga agtatttgtg aagttcaaga taatgggtgga aactcacagt ggctgcnaga 420
 ttcaatgact 430

<210> 19677
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19677

agcttggtttc ttgcaattcc aagacactag agagcttcct aataggtggc atgtctaact 60
tgtgcttttt ctatctaatt tgcaacctgc aaaattagaa tatgaaaagc ctgttagatt 120
taagaaagta tccctgggat acctcaaac tccatttgtt gtgtcctaa ggtacttaat 180
gatctttttg atagatgtta agtgagattc cttatgattg gtctggtacc ttgcacataa 240
gtaaacactc cactgattta agtagaaaag tgatccaatc atacctctat atcttgactc 300
atccactgat tntcctttct catctaagtc atggtaggtt gaagttgcca ttggagtaga 360
tgcttctttg cattnttcca taccgaatnt cctaattagt tntgtacaat acttggtttg 420
actaa 425

<210> 19678
<211> 409
<212> DNA
<213> Glycine max

<400> 19678

tgaaggcaaa ctggatgcgt tggtaactt ggtaacccaa ctggccttga atcagaaatc 60
tgtacctgtc gcaagggttt gtggtttgtg ctcctctgct gaccaccata cagacctttg 120
cccttccatg cagcaacctg gagcaattga gcagcctgaa acttatgctg caaatattta 180
caatagacct cctcaacctc agcagcaaaa tcaaccacag gagagcaatt atgacctttc 240
cagcaacaga tacaacctg gatggaggaa tcacctagc cttagatggt ccagccctca 300
gcaacaacaa cagcagcctg ctccttcctt ccaaatgct gctggcccaa gcagaccata 360
cattcctcca ccaatccaac aacagcaaca accccagaaa cagccaaca 409

<210> 19679
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19679

agcttagtat ccactaacia gtacaaacca accgaaagaa aaattgaaaa agtaaagaag 60
agagaaaaag taaataaaca tgtagaacac cattccacca ccaaataaca cgtcaattaa 120

agaaatgtga ttggacagat tatatatata tatatatagg agagagatca aattacatta 180
 actttaactt tgattaagta ttataccggt caataatttt taattggata atattttctt 240
 aaaacctata atgggattga aattttattt cacttagatc atatatacaa aattttatat 300
 caaccacaaa ttttttgta cccattcat tcagattaaa attgacctaa tataaacctt 360
 tcaaaatata ttaaaatata gatcggttga ttaccttatt atgttcaat ttggacacaaa 420
 attcacacaa 430

<210> 19680
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 19680

agcttacaaa tttgttttaa gtcagttgaa ggaccaaagt aaaaaagctt tttctgttat 60
 tgcttgaatt caaataggta catatatata gagagtacaa aagagagaga gggaggagag 120
 aggctatgac agtgacaatg cactgttgcc ttctgaaaaa aaaggctacc aactaagtta 180
 ccaaacatgg ctaaattaca aggatattca acactcccc tcaagctgga gcatataaat 240
 catatgcacc aagcttggtta catatagtct gaatcttggg tcctcttaag gacttagtca 300
 aaatatccgc tggctgatca ttagaaccaa tgaactcagt gacaatctcc ttggacagaa 360
 gcttctctcg aatgaaatga caatcaatct ctatatgctt ggtcctctca tggga 414

<210> 19681
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 19681

agcttttgtt atcggtcac ttcataact ctaaggactg cagagcacia ggaagaaaaa 60
 tatacattat tgtcacagta aacaagaatg ggatgttttt agagaaacag aagtgttgaa 120
 atgaggatag tttgcagtat tacaatgaaa tgggtgcagt tttttacatg ggtctgatgc 180
 atgcagtcca gaagtaaggt ttttgaatcc atgcattcat tacaacagat aatgaacaaa 240
 agcttaccga acttctcca atcaccaaca aagttgaata acttggatga taaacacagg 300
 aatgcaattg gctcccagt gagctgaact catgaatcca ttctcctcct gaggtcatac 360

tccaaacctt caccagattt ggactcacag atgccaaggc atcaccattc ccatccc 417

<210> 19682

<211> 400

<212> DNA

<213> Glycine max

<400> 19682

tgtgtttttc gataggagga accagtttga gttggaggat ctgcttcgag cttcggcgga 60

gatgctcgga aaaggaagct tggggactgt ttacagagcg gtgctcgatg acagctgcac 120

cgtggctgtg aagagactca aagacgctaa cccctgcgag agaaatgagt ttgaacagta 180

catggatgtt gtagggaagc tcaagcacc caacattgtt agactcagag cttattatta 240

cgctaaagaa gacaagcttc ttgtctatga ttatctgccc aatggaagct tgcattgctct 300

tcttcattgt tagttaaact caaactcgag cgagctctga tgggacatga tccttcattga 360

taaacttta ttaatttgat aagcttgatt gtttatatat 400

<210> 19683

<211> 418

<212> DNA

<213> Glycine max

<400> 19683

tcaacatcag accacttcca ggggtgctgga tctacttcac atggacttga tggggcctat 60

gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120

atttacctgc gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaagagtt 180

gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaattagga gtgaccatgg 240

cagacagtat gaatacagca agcatactgt attatgcaca tccgacggcc tttctcatga 300

catctctgca gccatcacac cacaacacaa tggcatagtt gaaaggaaaa acaagacttt 360

tgcagaagct gctacggtca tgcttcatgc caaagaactt ccctataatc tctgggct 418

<210> 19684

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19684

agctttcttt ttgatggcct cagctattct cttaggattt gtaactaaca natcatctac 60
aagttgaata tcaactgaag caagcaatga agcccatgaa cccaatcat cttgatcaaa 120
cggatcctta attgacacaa tnggaaatc tttaacataa ttnttatata ngtgaccaag 180
actctgagta gagtgaacat gagctccatc attnggctgt ttcatgaagt tcanatcata 240
cttcccatcc ttagtgtaaa actctgaagc tgcaacatcc ataccaattn taatctgcac 300
cattgtnttt tatttccaga tcagcacaag tgaatattca nattatgcaa cagaaataat 360
canaacttca cccaccttgc cagtataacc agccttctca atggcatcca cgagtaaaac 420

<210> 19685

<211> 399

<212> DNA

<213> Glycine max

<400> 19685

gttcctttga tttgctctga tagggtttct aagcattaga gagaaggaga agagattaaa 60
gtcttcattt tgtactatct ttgtgcgatt cacttttctc tctccatgaa tattatttca 120
caaatcccaa cgggtggcgg gtgaagaatt gaattgccaa ccagggtgcct aaatttcaca 180
atgatccaac ggtaactag tttgtatcgt acttttattg gacaggtttc gagtctctac 240
gggaaaagag aaagctacaa tgccaaggac atttctctta tctccaacat ttttttttca 300
caatttccaa cggtgagaat gtcataaat gagttgcgaa cctgatgctg aaatatctcg 360
atgatccaac agttaacaag ttcgagattg tcaatttac 399

<210> 19686

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19686

agcttccatt ttctatgtcc tttatctata gctcgatcc attagaaatt atgtactttg 60
atgtttggng acctgttcca ataaattcaa ttgatgattt tcgttattat ttttgtggat 120
catttctcca agtatgtttg gctctatcca ttgaaattaa aatctgatgt ttcaataatt 180
ttccaattt ttaaaaactt ggtcgaaata caattaaact cccaaatcaa aactctctac 240

tttgacaatg gaggcgaatt tattaaactt caaccatttt tacaaaatca tggcatctct 300
cacatgacaa ccccacctca tacccttgaa cataatggta tttctaaacg tanacaccgt 360
cacttagttg agactgttcg ttgnctacta caccatgca 399

<210> 19687
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19687

agcttttaac tgaattagca acgttccaaa tgttttttaa tgggtgtaatc gataataata 60
tattggtaat cgattaccag tgtatccgaa cgttggaatt caaattcaat tgtgaagagt 120
cacatctttt cataaaatgc attgtgtaat cgattacatg gttatggtaa tcaattacta 180
gtgacaagtt ctgaataaaa agtcaagaga tgtcactctt ccaatgggtt tctcaagatt 240
ttctcaaggt tataactctt ccaatgggtt tcttgaccag acatgaagag tctataaaag 300
caagaccttg actttgcatt caaataactt ttacaactt ttagaatctc ttgaacaact 360
tttgagaaat cttganacct ttacaactca tctttcttct tctt 404

<210> 19688
<211> 445
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19688

tatgctcgtc aaaaattcac atggaattac gataacttga tattcattat ataattggcg 60
tatatctata cgctacaact ccgatcagat aactctttta agcacacttg ttccctatag 120
acatacatta aattgataag atattcttta ttgataggaa taaaaaaata tattatttaa 180
aatttataat aactcaccta tcaatttatc atatttgcatt atgtacatta attatagacc 240
gtaaaacacc aagtatatat ggcctaagaa aatgcttcatt gtcatatatt aaataaatct 300
tttcatacct gaaaaataga tcattcttaa attactacct acgaattcat tntttgtcaa 360
atacctactt gaaaaaaaaa tttaatcctt cggntaagtg atgacgtgac agaataccac 420
atcattacgt ccaatcactg acact 445

<210> 19689
 <211> 189
 <212> DNA
 <213> Glycine max

<400> 19689

tgatattgca caacggaagc acicgagaca tgcgaatgtg tcaattactat tcaatcggat 60
 gtgcgattcg cgggcataac tcatctagat gctcgggaatt gtgcatcgga agctctcgag 120
 aaagtcgaac ggtcataact tttcacacgg atgtgcgaat tctgggcata atatatagag 180
 acgctcgat 189

<210> 19690
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19690

agctntgggt atngattgac cccaggccta aaccagcaac cactccatct tgcactgcag 60
 tcctgtaagc tttgggtaag gattgattgt attgagctat agcttgactc tcgcctgtaa 120
 atgatgcaac ctgcattgga ggaatgtgta tcttttatat tctactgtct acaaacatgt 180
 aaaagaacaa gattgacaag ttccattatg aagattggca tacttgtcga attgaatcaa 240
 ttgtgcgctc tactacagtt gctgcttcag aataagctgc ttgtccatgg gatggcaact 300
 ttgcaaaagt aaagctcatc atggaaccag agattaccag aggtggaata caagatagaa 360
 ggacaagggt tagaagccaa cccttgatga atgctatgac taaacgtcct aaaaaacatg 420
 ccaca 425

<210> 19691
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19691

tgccgccacg gagttntccg actatgctct tgtgtggtgg atctagctac aaaaggagag 60
 agcaaganat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120

gcggtatggt ccggttagtt actcaagggg cttgaaattc aagctccaaa aactaaccga 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tgcatttctt aatgggttga ctaatgatat 300
ccgtgatatn tgtgagctgc acgagtttgt tgaaatggat gattngcttc acaaagcaat 360
ccagtgagag caacaat 377

<210> 19692
<211> 386
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19692

agcttgaaat tgaacaacgg aagctctcga gaaaatcgag tggtcataaa ttntcacaca 60
gatgtccgat tcgggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120
gagaaatttg aatggtcata acatttcact cggatgttcg atccggggac ataatttatc 180
gagacgctcg aaattgaaca accgaagctc tcgacaaatt agaatggctc taacttttca 240
cgcaaatggt cgattcgggg acataactca tctagacgct cgaaattgaa caacggaagc 300
tctcgagaaa ttcaatgggt cataaagttt cacacggatg gtcgatttcg ggacataata 360
tatcaagaca atcgaaattg aacaac 386

<210> 19693
<211> 375
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19693

tgtcatcggc gcggttgaca catgtgatga tgcattgggac cttggcttgt aattgagata 60
gcagaatatg atgagccaat ggttgataga tggacggaga tgaaaaagat catgaggaag 120
cggatgttgc cggctagtta ctcaagggac ttgaaattca agctccaaaa actaaccgga 180
ggcaacaagg ggggttgagg gtatttcaag gaaatggatg tgctcatgat tcaagcaaat 240
attgaagatg atgatgatgt aactatggct cgattttctta atggntcgac taatgatatc 300
cgagatattg atgagctgca tgagtttgtt gaaatggatg atctgcttca caaagcaatc 360

caagtggagc aacaa

375

<210> 19694

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19694

gttggtgcat agaagaagaa gaagttcaga gagattcaaa gcttgtaaag gattgatcaa 60

atgaatgtga aaagtatat gaaaatcaaa tcaaagcctt acttttatag actcttcatg 120

tctggccaag aagaccattht agaagagtta taacttttag aataacttaa aaccaatttg 180

aaaaagtcaa aaaccttttg aagagttaca ttttttttat ttattcagag acaaacttg 240

gtaatcgatt accatattag tgtaatcgat tacacagagc ttttgtgtga aaagatgtga 300

ctcttcatat ttgaatttga aattcaacgt tcaaaggcac tggtaatcga ttacaaaaac 360

attggaattg attacagctn tgtgaaaata attggaac 398

<210> 19695

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19695

tgtgatgacg acataagttc aagtcaggaa tatatatata tatatatata tatatagcat 60

gttgagagac aaatgtggng aaaagttagg ctggttcttg aagaatccat gccatatgga 120

tgctacagag tgaaaggagc ttgttttagt gtagagagat gaagaaagtt ctacgttaat 180

ttggaatatg atttggtggt tggaaggaga accgtaaaag aggggtgcaag agttttccaa 240

cgtgttccag aggttcatg tgttactttg tcaacatatt ggtcatattc atcggactac 300

agcttttctc tttaagtaat ggtttgggca atttcacact aagttgggat taagtccaat 360

atcaatacca tacctactag ntacgttntc ggctattgct tcctgcacct cttttatggt 420

ttctggaatg gtcaatcccg 440

<210> 19696

<211> 384

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19696

agcttttcaat gtacaaacaa ttagtatata caactcttat agagacagac acaatacagc 60
agtcacaggc attgaactac tccattgtga ttgcattgat cagagatata taagtatcat 120
cacatattca cataaatctc atttatgatt acttattatg cacatacctg tcttccatcc 180
aagcaacact gtacagatca cccaagcagg ttgaatattc tgggggagga ctaggatact 240
ccccagggca atatgttccc caactacttt cttctgcatt ggaagctgtg gttgcataaa 300
tattgatatc ttcggaaga agaccttcaa agatactccc agattcacat gcctncagat 360
aaaatacctg cattaccatc atgt 384

<210> 19697
<211> 361
<212> DNA
<213> Glycine max

<400> 19697

agctttttgat gcactagttc gaaggatgt atcaacctgg tcttgaaaat caagatctca 60
tgagcccttt caagaatgga tgataaatga taattctgaa ttgggaaaca taatattgca 120
tatcatgact acgtgaatgg cttcccatgg ccaccaagat catacacttg cagcttttgt 180
acaaaggagt ttaagtctgc tcatgcactt ggtggacaca tgaatgttca taggacggat 240
agaccaaggt tgaggcagtc atcacctca attcatgaag atcaaggaca agctgctgga 300
cctatatagc acaaccttaa tcttgaccct aacaacaact cactctcatg atgatgggtg 360
c 361

<210> 19698
<211> 427
<212> DNA
<213> Glycine max

<400> 19698

tcaaacctct cacaaggag aagacaaagt aaagaatgtg aaatctaac tgatgaatgc 60
aatacaacag tcgcaaatag aaatagttgt tttctccaaa agctatactg aatctacttt 120

gtgtcttgag gagcttgaaa aaatcattga atgcaataaa ttttaaggcc aagtacttgt 180
 gcccatatatt tatgatgttg acccatcaga tgtacgccat cagaaggggtg cttttggaag 240
 agcattaaaa gaacttgcac aaaacaaata ttcaagagac catgcggcat aagtgtttgt 300
 gatgtggagc cacacactca gcaaaactac agacttttgg tgttgggatg caagagagca 360
 atgttgtag actcgtgatt ctacgtagaa tcgtgaagac ttcgtaaact cgacttcag 420
 aatcgaa 427

<210> 19699
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19699

agcttgaagg caaactggat gcgttgggtca acttggtaac ccagctggcc ttgaatcaga 60
 aatctgtacc tgtcgcaagg gtttgtggtt tgtgctctc tgctgaccac catacagacc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcaacc tgaagcttat gctgcaaata 180
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagagc aattatgacc 240
 tttccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tggccagcc 300
 ctacgaaca acaacagcag cctgcttctt ccttccaaaa tgctgctggc ccaagcagac 360
 catacattcc tncaccaatc caacaacagc aacaacccaa gaaacaacca acag 414

<210> 19700
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19700

ngaaggcaaa ctggacgttg gtcaacttgg taaccacagc ggtcttgaat cagaaatctg 60
 tacctgtcgc aagggtttgt ggtttgtgct cctctgctga ccaccataca gacctttgcc 120
 cttccatgca gcaacctgga gcaattgagc agcctgaagc ttatgctgca aatatttaca 180
 atagacctcc tcaacctcag cagcaaaatc aaccacagta gagcaattat gacctttcca 240
 gcaacagata caacctgga tggaggaatc accctaacct cagatggctc agccctcagc 300

aacaacaaca gcagcctgct ccttcctttc aaaatgctgc tggcccaagc agaccataca 360
nttcctcacc aatccaacaa cagcaacaac cccagaaaca 400

<210> 19701
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19701

cctaagcagc caagtgaggc acaacagaac aattatgacc ttgagcagca caagtacaat 60
cccatgtgga ggaatcattc caaccttaga tggatgaaac cttcacaaca gcttctgcaa 120
taacaacaac atccatactt gcataatggt gctggggcaa gcagaccata cgtttctgca 180
ccaaatcaac aacagcagca accccagaaa ctacgaacag tgcaggctcc tacacaacct 240
tctcttagag aacttgtag gcaaattgatt atgcataaca tggcagttca acaagacacc 300
agagcctnca ttcagagctt aactaatcag atgggacaat tggctacaca attagatcaa 360
caacagtgcc agaattctga c 381

<210> 19702
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19702

agctntntat tttcagtaga tgaagatgaa tctgtggcca cctcatggac tcctctaagg 60
acaatagcat catttcttgc actgaattgt tgggagttag aagccatctt ctgatcaaa 120
ttcctggcct cagcaggggt catatcacta agggctccac cactggcagc atcaatcata 180
ctcctctcca tgttgctaag tccctcatag aaatattgaa gaaaaagttg ctcanaaatc 240
tgggtggtgag gacagcttgc acacgatttc ttgaatcttt cccagtactc atacaagctc 300
tctccactaa gttgtctgat gcctaaaatg tcttttctga tggcaatggc cctagataca 360
ggaaagaatt tctccaagaa cactctctta aggtcatccc agctgaaaat 410

<210> 19703
<211> 420
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19703

agcttctcta cagtcttcat caaatgctaa cacaacatcc ttgttttagta aattgctaag 60
tgggttggra acrrtgaaa tgtctttrac gaatcgcta taaaaccag catgtcttag 120
aaagctcttc actcttlga caallacigg agagggagt tctcaatga catcaatctt 180
tgctttgtct acctcaattc cctcacaaa aattgtatgc cccaacacaa tgctttcttg 240
aaccataaaa tgacatttct ccagtttaag caccaagttg gactcttcac atctctgcaa 300
caccctttcc aaattcgata gatagcaatc aaaagaagag ccanagatag agaaatcatc 360
cataagaatt tcgatacact tctccaccat atcgaanaag atngccatca tgcacctctg 420

<210> 19704

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19704

ntgaagttag tgtattttat tattagtatt attatacata taattaaata cttttatggg 60
tatgattttc tattgataat tcatgtctat gattttgtag tgttattatg acatgatctc 120
gaaagttatt gatatgttga aattagaaaa tatttttatt taatttgata catgtgtata 180
tgattcatga gatatgataa attattatat tngatcatg aaattgtgat tgagaatgtg 240
tgtgtaagtg atgaattgtg agatatatgt gtattgagat gtgagctatg aactctacaa 300
tcacacaatt gtaagagcct ttaagagcga tgagttaatg cgcgataagn nttgtatgag 360
ctctactgtg ggaacccgat gaagttaatc aat 393

<210> 19705

<211> 232

<212> DNA

<213> Glycine max

<400> 19705

tcaacattca atgtcaagcg tctcgatata ttatgggact caatcagaca tccgagtaaa 60
aagttattgt cgtttgaatt ggctcggagc ttcaacattc aatttcgagg gtctcgatat 120

attacgggac tcaatccgac atccgagaaa aaaattattg tcgtttgaat tggctcagag 180
gctcaacatt caattttgag cgtctcgata tgttacggga ctcaatcaga ca 232

<210> 19706
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19706

tatcctgtaa ctaccaagaa ccatctggta atcgattaca gcctgttgta atcgattaca 60
aggctcctgtt ctatgggtatt ttgcatttaa aactaactat ttttcactca caaacctac 120
acattgagta taacaatcat taacaacaat caacaatcaa aatatacaat taaaacaagc 180
atcaaaaactc tcaaacacat tcatcaagca caatcaaaaat tgcaaaaagac aattatcaac 240
aacaatcaac actcatcata actatcaaaa cataatcatt agagacaatc aaaactcaaa 300
caaagacaat cattaatcca taatcaacaa taatcatcaa aagcaaactc aattatcaag 360
aacaatagaa canattaaca atcatatgat aagagataat aatcaaccaa gttaactatg 420
tatctaagtc a 431

<210> 19707
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19707

tgcttcagga tttgaaagtg agacatttcc tcaacatggt ttcaaactca aaaaagccct 60
atatggactt aagcaagctc ctagagcttg gtatgaaaag ctaagttcat ttctcttgaa 120
aatggccttg agcgaggaaa gggtgacaca aactcattc acaaaaacta tgattctcag 180
tttttattag tgcaagtata tgtggatgat atctcatttt tagtgctact aatgaaattc 240
tttgtgaaga tttttctaag tagatgcaga ctgaattcga aatgagcatg atgggagagc 300
tgaaattctt tcttgatta caaataaaac aaacacccan aggcatctac attcatcaga 360
ccaagtatgt gaaagaatta ctgaanaatt caacatgggt gtcgcaatat agataaag 418

<210> 19708

<211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19708

caacaatggg gagatggacc attcaagtgc tggaaagaat cattgacaat gcttacaag 60
 tggagctgct tcttcaatct adtggttact tcaacttcat gcttgatta cctctcttga 120
 tgcagatgta gaatccgatn tgaggacaaa tccttctcaa gagggagaga atgatgagga 180
 catgaccaag agcaagggca aggatccact tgaaggactt ggaggaccta tgacaagggc 240
 tagagcaagg aaagccaatg aagctcttca acaagtgctg tccatactat ttgaatacaa 300
 gcccaagatt caaggagaaa agtccaaggg tgtgagttgt atcatggccc aaatggatga 360
 ggactaaatg acaccacttt gtctcnaatt tt 392

<210> 19709
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19709

agcttganat tgaacaacgg aagctctcga gaaaatcgag tggtcataaa ttttcacaca 60
 gatgtccgat tcggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120
 gagaaatttg aatggtcata acatttctact cggatgttcg attcggggac ataactctatc 180
 gagacgctcg aaattgaaca accgaagctc tcgacaaatt agaatggctc taacttttca 240
 cgcgaatgtt cgattcgggg acataactca tctagacgct cgaaatngaa caacnggagc 300
 tctcgagaaa tttgaatggt cataagtttt cacacgga 338

<210> 19710
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19710

agcttgaatg ataacttgat gccttgggtca acctaccaac tcagcttgcc atgaatcaga 60
 aatctacacc tgttgcaaga gtctgtggta tatgttcttc tgcagatcac catacagatc 120

tatgtccttc tttgcagcaa tctggagtca atgagcaacc tanagcttat gctgcaaaca 180
 ttataatag acctcctcag cagcaaaacc aacaacagta gaataattat gacctttcaa 240
 gcaatagata caatccaggt tggaggaatc atccaaatct gagatggaca agtcctccac 300
 aacaacaata gcttgctcct cattttcaga atgttgctgg tccaagcaag ccacatgttc 360
 ctctccaat acagcagcag tcacaacana gacaacaagc aatttcaacc ttccttagaa 420
 gagttagt 428

<210> 19711
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19711

agcttggcac tatcaacact ataaggcana ttcccaaat aaagcttggg ggcagaggaa 60
 tcagagtctt gttctgccac cgcttctcct tcattctcct ccactttctc ttcttcaact 120
 aaaccagcac catcatcatc cacaacaaca acagcctctt cttgtgcaac agcagcagaa 180
 attctaggtc cccacaactt gtgcgaatta atggacaaag gttccaccaa gtgtgacca 240
 aacatgccac ggtttgaggg cactgttggt atgagagggt ctattatgga gcagttcttg 300
 gaggaacgaa gacatttgac actgttaata gaagaagaaa acaaggaagc tatgcctgca 360
 gcagcagtgg cagccatggt gttgttggtga tgtaatgcaa ctcanaagtg tacattacaa 420
 gt 422

<210> 19712
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 19712

cgtgatgacg acataagttc aagtcaggaa tatatatata tattatatat atatagcatg 60
 tcgagagaca aatgtgggga aaagtatgc tgtgtcttga agaatccatg ccatatggat 120
 gctacagagt gaaagggact tgttttagtg tagagagatg aagaaagctc tacgttaatt 180
 tggaatatga tttggtgttt ggaaggagaa ccgtaaaaga ggggtgcaaga gtttttcaac 240

gtgttccaga ggcttcatgt gttactttgt caacatattg gtcatttca tcggactaca 300
gcttttctct ttaagtaatg ttttgggcaa tttcacacta agttgggatt aagtccaata 360
tcaataccat acctact 377

<210> 19713
<211> 365
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19713

ntggacgcgt ttaaagggtt taatgctaaa gtagagaaac aatgtggaaa ataaattaag 60
attgtgagat tagatagaga ggagagtatt atggtaagta cacagagagt ggacaagcac 120
ctggtccatt tgcaaaatct ctttaagaac atgggattgt tgcccagtag actatgtcta 180
gttctccaaa ttagaataat gtggcagaaa gaagaaattg aactttaatg gacatggtaa 240
gaagtatgag gagtaacaca aaacttcctc agttcttctg gattgaaaca cttaatgata 300
ttgtgtatat atttaataga gttccaacca aggggtgtctc aaagacacct tttgagttat 360
tcaaa 365

<210> 19714
<211> 335
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19714

atcttggtga gtgggtcttg ggctgctga tcatgtgtgg gctggctctg tattttgagc 60
aatcaatgta aaggtgctta gtttgctcat gaaacacgag attggccgct atgtggagaa 120
tgctttgatt atcacaatat ataacaactg gatgggagca attgatatta aatcattgag 180
aagataggtg agccattgaa actcacacgt ggttgaagta agagctcagt atttagcttc 240
taatgataaa tgtgaaacaa taccctattt cattgatttc tatganacca aggatctgcc 300
aatgatgaag caatttctgt gatggagttg gacag 335

<210> 19715
<211> 426
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19715

agcttgtaat gtttggtgcc agcagcattg aaggattcaa tgaattcaac attgttttcg 60
aatatcagga aacgtttttc atctcagcag aatccttgta tactttacca tatttttcca 120
tccatgctc atgtcttttc tagatggatg catcatggag tttcgggac tttacttggg 180
aagtgcaaat tgagagaagg agaagtagag ctaaaacttt cagggtttttg ccaatggaaa 240
tcactctctt gttagcaatt aatgacacta cgtactgatt aattgttgct agagaaactc 300
tattgagttt agtgtttggg gctagatgtg taaattggta tgctcctaag gcaatgtttc 360
gattagtata tataggatta ttgtcccttt aagggganna tatttaactc tagtcagaat 420
gaaact 426

<210> 19716

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19716

tctatagaag gtttgttcct aatttctcta caattgcac acctctcaat gagctggtga 60
agaagaatgt ggcatttaac tggggtgaaa aacaagagca agcatttgat ttgctcaaac 120
aaaagcttac taaggcacct gttctagctc ttcttgactt ttctaanact tttgagctag 180
aatgtgatgc ctctggagtg gtagttgtag ctgtattggt acaaggtggg caccctattg 240
cttattatag tgaaaaactt catattgcca ccttccacta cccacactat gataaagagc 300
tctatgcctt aa 312

<210> 19717

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19717

tcacaaaaga aaagtggata atccacatat tacaaaaggt tgacttccac attaccatcc 60
cccacaagga aacttgcaaa caagttnttc tcaatagttt ccctctcacc atctcacaca 120

atccttctaa taacaatagt aaacaagaaa agtgtcaatg gatcaccttg tcttaaaatt 180
 ttttgagcga aaaattcata agtatttcag caacatcaaa tggtaactga tgtcaaakat 240
 cccttaatcc aatgaatcca cttctcatca aaacccaacc tcttcatata gaacaagaaa 300
 ttccaattaa tcanataata ggttnttcat aatctaaact aaagataaga ctntntcttt 360
 tttcttttct tttatcaatg gttatcttca cggccaacac actatgaagt atgaattttt 420
 tcccaa 426

<210> 19718
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19718

agcttggaga gcaagtcttc cttagtattg ttttcccttg gtatgtggta cattttgagc 60
 aattgaaatt atcaacaagg gtttttatga catgatagtt tatgaggaga accacttcct 120
 tggctcgata tatgttttca acccatcctt ggacaagttt cgagtcctta tagcacctga 180
 gtttcccttg tcgaacttca tttgccagtt ttagacctgc tatgagtgc tttatattttg 240
 tttcattggt tgatgccttg aagtcaaatt tgagggcatg ctccanagt acattgttgg 300
 gtccttcaag cataatgccc gcctcatttc ctttcacatt ggatgcacca tcaacatata 360
 agttccacca gtt 373

<210> 19719
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19719

agcttgtccc tgtgcctcct cctgagatat tngngtggtc tttccaatga taacatcctc 60
 accagatact cgtgtgcctt atttcataat aattaattag ttcttgtgaa attccttgag 120
 gatagatcaa aaaggcataa attcagatat gcttactggg ggggcaagac catcatcatc 180
 cagcttatca taagaacat gtctcattcc ctgaaaaatg aaacttggt agaaaccacc 240
 aacaagaaac caatactctt ttccaaataa aaattgttaa gcaagaatag ttatttgcta 300

ccaaacccaa atttctcacc atggtgttag ctctatcagg acggccacaa tcttctttga 360
ccagggttcc catcttcttc tcttcatctc tataanaagt taagaatata gcatatcata 420
a 421

<210> 19720
<211> 357
<212> DNA
<213> Glycine max

<400> 19720

agcttgatt tatttcttcc ttagtattgc ttcccttgg tatgtggtac attttgagca 60
attgagatta tcaaccacgg tttttatgac atgatacttt atgaggagaa ccacttcctt 120
ggctcgatat atgttttcaa cccatccttg gacaagtctt gagtccttat agcacctgag 180
tttacttgct cgaacttcat ttgccagttt tagacctgct atgagtgcct tatattttgt 240
ttcattgttt gatgccttga agtcaaattt gatggcatgc tccaaagtga cattgggtggg 300
tccttcaagc ataatgcccg cctcattttc ttccacattg gatgcaacat caacata 357

<210> 19721
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19721

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aataattatg acctctccag caacaggtag aatcccaggt ggagaatcat cccaacctta 120
gatggctgaa tccttcacaa caacagcagc aacaacaaca accttatttt caaaatgctg 180
ctggcccaag cagaccatac gttcctccac caatccagca acaacaacag caacagcccc 240
aaaaacagca aacagttgag gctcctccgc aacctttcct agaagaactt gtgaggcaaa 300
tgactatgca aaacatgcag ttctgacaag agaccagagc ttccattcag agcttaacta 360
atcagatggg acaatnggct acacagttaa atcaacaaca gtcccagaat tctgacagat 420
taccttctca atctatct 438

<210> 19722

<211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19722

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ctgcttgtgc tattccaagc tcattaatca taccttcaag ccagattgct tcttccacac 60
cttcagctag ggcacatgial tctgcttcaat ctgttgaag agcaacaact gattgttga 120
ttgctttcca attgattggt ataccacaac aagtaaacac atatcctgtt aaggacttcc 180
ttgtgtctac atttcctgca aaatctgcat ctacatagcc tgtgactact gcctcgtgtg 240
ctgtcttctt gtaccttaaa ccagctttca aagatccatt tagatacctt agtgtccact 300
tcacagtttg ccagtgtgcg cttgcaggat ttcccatgaa tctgcttata atacttacag 360
catgagctaa gtcaggctcg atgcaaccat tccatacatt atgcttncaa caccactg 418

```

<210> 19723
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19723

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tatagaatat ataataagat aacaatgaca attgaagaat cgattcatgt ttccattgat 60
gagtctaattg ctatttctcc aagaaaggat attttagata atattgcaga atcttttagaa 120
taaattgcaca ttcatggaca agattctaaa ggaaaaggag aaggaagcaa tgaagatcct 180
ccagtagaag tcaaagcaaa taatgatctt ccaagagagt ggaaagcttc aagagatcat 240
ccncttgaca acattattgg tgatatctca aaaggggtaa caactagaca ctctctcana 300
gatntatgca ataacatggc ttttgtatct atgattgaac ctaanaattt aaatgaagcc 360
ataatagatg aaaatggata atagctatg 389

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<210> 19724
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19724

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tgtaatcgat tacacatata ctgtaatcga ttaccagagt atattnttag aaaatattct 60

```

caacagtcac atctttttat gtggttcttg aatgactatc aaaggcctat atatatgtga 120
 cttgagacac gaatttgcca agagtttttc agaacaaaaa ggtcttatcc tcttataaag 180
 aaaaatcggg ttatcctctt acaaattcct tggccaaatt acttatgatt caataaggaa 240
 ttatttgagt gctcanattg ttcaatctat ctttttcaag agagatttct tcttttcttc 300
 ttcttcattc tga 313

<210> 19725
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 19725

tacgtaagat tgaaagaaac atacatatat atttgaaata atttatattt aaaattataa 60
 gggatttttg cataactaat tcaggtagaa tttagatata taggagggga aaatttataa 120
 ttataaagaa gatacacata attaattcat gagaatttaa atttaacatt tttaaagaag 180
 ttaataatga tgagtgtaga ctaacgttat tcataagata cttctatact ctaatttcat 240
 tcatacgact ggagcagatg attcaaaaaca tgagaactta ggtgcaacat ctataataat 300
 at 302

<210> 19726
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 19726

agctttgatg ttgttagtcg tcatttggat gtcgagagtg tcattctgtt ggattctgag 60
 aagaagatca ataaaatctt ggtcctctaa ttcagctcca tcttcttttg caattttgtt 120
 cttttcttga tgctctctga tgatggtttc caggaccttg tcaacctgct tgtgcaactt 180
 cttcaatctg gtcattcttc cagttaggaa atataagaat ggaattgaag gatagacatc 240
 atcaaggctg aatcctcccc cggattctac gatttttcgg atcaaagaca ccacaaactc 300
 atcttgcctc ttgcatatgc caccgactgc tatcctgtaa atagaggctc atatcaatg 359

<210> 19727
 <211> 348

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19727

agctttgagc atattcaaac gagaaataaa tttagactcgg atgtccgatt gagccctgta 60
ataatccgag acgctcgtaa ttgaaaactg aagctctgag cacattcaaa cgagaataaa 120
ttntgactcg gatgtccgat tgagccgtaa tatatcgaaa cgctcgtaat agagaacgaa 180
agcacgtagc aaattcaaac cacaataaat ttttaactcgg atgttcgatt gagttclala 240
atatatcgag acacttgata ttgaaaacag aagctctgag cagattcaaa cgacaataac 300
tctntactac gatgttcgaa tgagacccgt atatatctag aatctcgt 348

<210> 19728
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19728

tcatgagaga gtcaaagatc aaattgagag gaanaataaa agctatgcta aacaagccaa 60
caaagggaga aagaagggtg tcttcgaacc cggagattgg gtttggtgac acatgagaaa 120
agaaagggtt ccgaaacaaa ggaaatcaaa gcttcaacca aggggagatg gaccatttca 180
agtgttgaa agaatcaatg acaatgctta caaagttgag ctgcccgggtg agtataatgt 240
tagttccacc ttcaatgtct ctgatttatc tctttttgat gcagatggag aattcgattt 300
gaggacaaat ctttctcatg agggagagaa tgatgaggac atgaccaaga gcaagggcaa 360
ggatccactt gaaggacttg gaggacctat gacaagggct agagcaagga aagccaagga 420
agctcttcaa caagtgtgtg ccatactatt tg 452

<210> 19729
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19729

agctntgctt ctacttaggt ctttaagtata acttactaag cataagtcaa ttgtgcgacg 60

gtggttatat tgtatccttc aacaaagagt aatgtatagt caagacaaaa gatgacaagt 120
 cctttgttac taccaaata cacaacaatc tgcattgagat tgatctaata ggtctaagta 180
 aacagaatgt gacatgtctg ctttctagag aagatgagag atggatttgg catagaaaac 240
 atagtaatgt caatttgaaa cgtatttcat aactttctaa aaaagattta gtgaaaggac 300
 tacctaagat ttgttggaag acccatcttc tctgtgaagg atgtcaaca gggaaataa 360
 tcanaactta ttntanatct aaagatggtg tttccaccat taaaccatta cacatattgc 420
 acatagatat gtttggacca acttgaaccg 450

<210> 19730
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19730

tgcgccctag ttgcgcattg tgtgtaaata catgatcctg tgtatgatga tcacggatac 60
 aaggcaacca gggaatgata ttgatgtgta tcttacacca ttaatcgaag acttgaaaaa 120
 attgtgggaa gaatgagtag atgcgtggga tgcaaatgtg cagcatacat tcacattaca 180
 cgcaatggtg ttttgtacta ttaatgatta tccagcatat ggaaatttaa gtggatatag 240
 tgtgaaaagg catcatgcat gtcctatctg tgagaaaaac acaagcttca tccaactcaa 300
 gcatggaaag aagacagtat atacgagaca ccaaagattt ctgatagctt ttcaccctta 360
 ttgatgattg aaaaaatctt ntaatggaag tcaggagaat gaaggctccc cagaaccatt 420
 aactggaaac caagttcatg atcgggtaaa ggac 454

<210> 19731
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19731

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 aagaaagact tcacatcatt tatgaattgc atattactac caaatatcaa tatgtcatcc 120
 acatacaaac ataaaatgac acatccatta tcatcaaatt gtttcacata cacacattta 180

tcagtattat tgattagaaa accatacgaa agaacaattt gatcaaattt ttcgtgccat 240
 tgctttggag cttatttcaa accatataaa gatttaacaa gtttgcaaac tttcttttct 300
 ttccccggtt ctacaaagcc ttttaagttgg ctcatataaa tttcttcttc taattcacca 360
 tttaaaaagg gcagttttac atccatttga tgaaatttct aaataanaac acaagcaagt 420
 gcaatttapa ccctaatt 447

<210> 19732
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19732

taatctacat gtccaagcct cctctcccat tgaacccaac actatcaccc aggcccttcg 60
 cgaccctgat tggcgctcag ccatgcaagc cgaatctgat gccttacacc acaacatcac 120
 ttgagatctt gtcagtcggt cctctgatca aaatttggtt ggctgtanat gggatatttcg 180
 aatctaacga aatccagacg gatcaattga tcgttacaag gctctgttag tcgccaaggg 240
 gtttcaccaa cgctctgggt gggactatac agaaactttt agccccgttg ttaaaccggt 300
 gaccattcgc attgtcctaa ctctcgcagt tcgtcaaggg tggcccatat gtcagcttga 360
 tgtcaaca 368

<210> 19733
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19733

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 tttttcctaa caaagtcaaa catgccataa ctcaatcgtg ctttttcttc aatgtcatat 120
 gtagcaaagt ccttgatcct gccaaagttag atgagctaga aaatgaggct accaatacat 180
 tgtgtcagat ggagatgtat tttcctcctg tgttcttcgg cattgtgggt cacttaattg 240
 ttcattctggt gagggaaatt aaatgttatg gtcttgttta tttgtgggtg atgtaccga 300
 ttgaacaata ctagaagatc ttaanatggt atacaaagaa tctacaccgt tttgaagcat 360

ctattgtggg aaggtacatt gtagaagaag ctattgagtt ttgttcagag tacattgaaa 420
aggcaaaact tgttgtgctt cccaagtctc gacatg 456

<210> 19734
<211> 442
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19734

agctttagg cctaggatct tctttatcaa tggactcctt tacttcttgg aagatgaatg 60
acagtggaat ggagaaggaa gagagagaga ggagatgcca cttcaaggag aagatgagtc 120
tagaaggagc tcaccaccat aggaggccat ggataagagc ttggaggaag aagaagataa 180
atgaagggag aggaagagaa gaacacgaaa ttttatgctt tacaagagct ctaaaatctg 240
aagtttaatt ttcaaagat caaagttcaa aaaaatacac acacatgacc tctatttata 300
tcctaagtgt cacacaaaat tggaggaaaa tttgaatttc tattcacatc tcacttacat 360
ttganattaa atttgtggag ccaaatttc actaattatg attagtggaa tttagctatg 420
gttcagtcca ctagtccaag at 442

<210> 19735
<211> 330
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19735

tagcttgaat ctgacatccg tgtgaaaagt tatgaccatn tgaatttctc aagagcttcc 60
gttgttcaat ntcgagctc tcgacatatt atgcaccoga atcggacatc cgtgtgaaaa 120
gttatgatca tttgaatttc tcgagagtct ccgatgttta atttcgagcg tatcaatatt 180
ttataaccgc gaatcggacc tcactgtgac aagctatgac catttgaatt cgacgagagc 240
ttcogttgtt caatttcgaa tatcactata tgtgatgcgc ctaaattgga cattcgagat 300
aaaagctatg accattagga tgtctcaaga 330

<210> 19736
<211> 382
<212> DNA

<213> Glycine max

<400> 19736

agcttggatg aagaatgaga tgaatgaagg gagagggaga gaagagcacg aaattgtgtg 60
ctctaaaaga gctctgaaat cttaaagttaa tattcaaatg atcaaagttc aaaaaaatgc 120
acacacatga cctctattta tagcctaagr gtcacacaaa attggaggga aatttgaatt 180
ttaattcaaa ttctacttga atttgaaatt gaatttgggg agccaaactt tggagccaaa 240
atttcactaa ttatgattag tgaatttttag ttatagttca gccagtaat ccaagatcaa 300
ttccaagatt ctccactaag tgtgcttaag tgtcatgagg catgtaaagc atgaaagaca 360
tgcacaaaat gtgactatat ga 382

<210> 19737

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19737

agcttgtaca tctctgtttc tctacctttc atcacanacc ctgggtggttg agtgacaaaa 60
acttcttctt ctagtgagcc attaagaaat gcagatttta catccatttg gtgtacttcc 120
cagcaattga agctagccat tgctattaca agtttctactg tttccaacct agcaacaggg 180
gcaaatactt catcataaac cagaccttgc ttttgcaaaa atccctttgc aaccagtctg 240
gctttgaact ttgttacttc tcctctacga ttcaacttag ttgtgtagac ccattctact 300
gctatggctt tctttcctat tagtagctat gtgagactcc atgtcttggt tctctcaata 360
gacctcaact c 371

<210> 19738

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19738

nttgtgaatg tatgtataca tgantttgat gatgccaaag ataatcgtct tctcaagttt 60
gatccaagtc aagaattcag aaattcataa aataactccc cagagtcaca actcttcaga 120

aaataactcc tgagagtcac atctgttcaa gagatttttg aatggacatc aaaggcctat 180
 aaataggtga cttgngacac aaaatgaatg agagagattc caagagaact tcattctcaa 240
 atgctctctc aaaagaaact cttgggcaaa cacttgcaaa tccattaaga gttcatccat 300
 ggacttcaat tgtaatatcc ttctcttcaa gagagaattc atcttcttctc ttcttataca 360
 aagagattga ttaagggacc gagggctctc taagttgtaa ggattcctga acacaaggga 420
 tgggtngtcc ctgtgt 436

<210> 19739
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19739

agctntgagt ctattcaatc tacaatacct tttgactcgg atgtcggatt gagtcacgta 60
 atatctcgag acactcggaa ttgaataccg aagttatgag caaattcaat cgacaataaa 120
 tttttactcg gatgtcggat tgagtcacgt aatatatcga gacgctcgaa attgaatacc 180
 gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtccga ttgagtcccg 240
 taatatatcg agacgctcga tattgaatac cgaagctctg agcaaatcga aacgacaata 300
 aatttttaca cggatgtcgg attgagtcac gtaatatgtc gagacgctcg agatagaata 360
 cctgaactct gagcaaattc agacgacaat acctattgac tcggatgtcg gattgagtca 420
 cgtaatatct tcga 434

<210> 19740
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19740

agcttgtcat atggaaggat aggataccct atgctttntg gaagggcaac ccaacagtgt 60
 ctattattag gagagaactc ggcaagtgc acaccacaga aaaacatgat tggaatgcaa 120
 gaatatatga catagtaa atataatcta aaaatttact tttgttttag gttaatgcat 180
 taattatctc aagattaaat taacacattt ttctctctc tcttttcagc aatgggtgcg 240

agagagagca agtaatTTTTg agaactcaaa acttgaaaat caatgtacct ttaggttaaag 300
 ttntgaagca tattttatga ttctgatttt tttaaataat tattatagaa ggggttagtt 360
 tactcttttg aatctgtcac atataatctt ttttagattg tacttactac attttgaaac 420
 t 421

<210> 19741
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19741

agcttataga ttatataata agagaacaat gacaattaaa gaatcgattc atgtttcctt 60
 tgatgagtct aatgttattt ctccaagaaa ggatatttta gatgatattt cagaatcttt 120
 agaacaaatg catattcatg gagaagatta taaaggaaaa ggagaatgaa gcaatgaaga 180
 tactccagta gaagtcaaag caaataatga tcttccaaga gagtggaaag cttcaagaga 240
 tcattccctt gacaacatta ttggtgatat ctcaaaaggg gtaacaacta gacactctct 300
 canagattta tgtaataaca tggcttttgt atctatgatt gaacctanaa atttanatga 360
 agccataata gatgaaaatt ggataatagc tatgcaggaa gactanacca atttgaaaga 420
 aataatgttt 430

<210> 19742
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19742

tatagtctca cgaatgccat atcttgatgc aataattggt attctttgcc ataccagaca 60
 ttattgctaa cagagtcgga catgccataa ctcaatcgtg ctntttcttc aatgtcatat 120
 gtagcaaagt ccttgatcct gccaaagttag atgagctaca aaatgaggct accaatacat 180
 tgtgtcagat ggagatgtat tttcctcctg tgttcttccg cattgtgggt cacttaattg 240
 ttcactctggg gagggaaatt aaatgttatg gtctctgtta tttgtgggtg atgtaccga 300
 ttgaacaata ctagaagatc ttaaaatggt atacaaagaa tctacaccgt tttgaagcat 360

ctattgtggg aaggtacatt

380

<210> 19743

<211> 162

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19743

ntaactcgga tgnncgattc aggcgcataa tatatcgata catttgatat tgaataacag 60

aagctctcga gagattcgaa tggctttaac tgttcacacc gatgtccgat tcgggcgcag 120

agtatagaag agacgctcga aattgatcaa cggaagctct cg 162

<210> 19744

<211> 280

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19744

taagacatct ctctatggac ttaaacaatgc accgatgcaa tggatatggtt tacttanaaa 60

cttccttctt gaacaaaaat ttgagagagg aaaagttgat aaaacacatt tcattaataaa 120

gatctctcat aacattttac tcatgtaagt ttatatggat gacatcattt ttggttctac 180

taatcgatct ctttgtgaag attttgtaca caagatgcac gaggagtttg aaatgccaat 240

aatggggggg gggattatat tactttcttg gtctctatgt 280

<210> 19745

<211> 446

<212> DNA

<213> Glycine max

<400> 19745

agcttgaagg caaactggat gcattggta acttggtaac ccagctggcc ttgaatcaga 60

aatctgtacc tgtcgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120

tttgcccttc catgcagaaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180

tttacaatag acctcctcaa cctcagtagc aaaatcaacc acagcagagc aattatgacc 240

tctccagcaa cagatacaac cctggatgga ggaatcacgc taatctcaga tgggtccagcc 300

ctcagcaaca acaacagcag cctgcttctt ccttccaaaa tgctactggc ccaagcagac 360
 catacattcc tccactaatc caacaacagc aacaacccca gaaacagcca acagttgagg 420
 cccctccaca actttccctc gaagaa 446

<210> 19746
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19746

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 atcgagatgc ttgaaattga aaacggaagc tcgtagcaaa tgcaaacac aataactttt 120
 tactcggatg ttcgattgtg tctcgtagta tatecgagacg ct cgttattc aaaacagaac 180
 ct cgtatcaa attcaaacga caataactat ttactcgaat gtttgattgt gtcccatagt 240
 atatcgacac gcttgcaatt gaaaacagaa gctcttagaa aattttaacg acaataactt 300
 tttactctga tgtccgattg ggacccgaat atatcgag 338

<210> 19747
 <211> 367
 <212> DNA
 <213> Glycine max
 <400> 19747

tgatgactac cctcttatgt gaacaatacg ggtatttacg atcttgttac atgaatatgg 60
 cacagccatt agaaataacg ctaggttagt agccaatgga tacaatcatg aagaggggat 120
 agattatgag gaaacatatg ctctgttgc tagattataa gccataacag agatattagc 180
 cgttgcatcc ataatggaat ctaacttta tcaaacggat ggaaagaggg cctttgtgag 240
 acgcttatcc cagaggacgt atatgtctat caacccctg gctttgaaaa ct cagatatg 300
 cctaatacatg tctttatatt gaaaagggct ttatatggta tacaacaagc ctctagggct 360
 tggtatg 367

<210> 19748
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19748

tcttagtttc acatgatgca gatgggttng tagctacctc atgcactcct ctaatgacta 60
tggcatcatt tctggcgcta aactgctgcg agttggaagc catcttctca attaaattcc 120
tggcttcagt aggagtcatt tttccaaggc ctccaccact ggcagcatct atcctacttc 180
tctccatatt actgagtcct tcataaaaat attggagaag aagctgttct gaaatctgat 240
ggtagggggca actggcacat agtttcttaa atctctccca gtactcatac aggctctctc 300
cactgagttg tctaatacct gagatatact tcttgatggg tgtggctctg gaaacaagga 360
taaattcttc taagaatact ctc 383

<210> 19749
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19749

agcttgcaca ttgctgcttg atagaagaag agcaagacgg taaatcatgg tactttgaca 60
tcaagcggta cgtagagtat aaggagtatc cacagggggc ttctgacaat gacaagagga 120
cattgtgaag gttggcaact agtttctttt taagcggagg tctctatac aaatgaaatc 180
atgatatggg tttgctctga tgtgtagaca ctaaagaagc cgagcgaatg ctcatggagg 240
tacatgaagg gtcctttgng atgcatgcta atgtgcatgt catggctagg atgattctaa 300
gggcagacta tctactggctc accatggaaa atgactgttg catccatgtg aggaaatgcc 360
acaagtgccg ggcattcgcg aacaatgtga atgctccgcc tatgcctttg aacat 415

<210> 19750
<211> 440
<212> DNA
<213> Glycine max

<400> 19750

agcttctcct ataacacagt atcatcagca tattgaagaa cattcacagg aactttgttc 60
ttccccacca aaaaacttct gaacctattc tgggaaactg cttctctcat caaccctgtc 120
aatccctcag ccactaaatc aaagaggaga ggtgccaaagg gggtcaccttg tctcaatcct 180

ctttgaggat taaattctga agttgggctg ccattaacaa gaacagaaat ggaagccgaa 240
 ttaaggcagg cccttatcca tctaatecat ctctcatgga accccattct cttcagcata 300
 taaatgagaa attgccaaga tacagaatca tatgccttct cacagtccac cttaaaaacc 360
 atacaagact tctcggaatt tctagcctgc tcaatcactt cattagccac cagaactcca 420
 ggaagcaat gtcacccctg 440

<210> 19751
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19751

agcttgataa tggaagacac atgaacagct ctaggcaata acattcatgg ggctccgaan 60
 aatggtgaga atggaggatt gccttgaggg tctcactta ngcaatcatg aaacacaact 120
 ccaaactcga aagtggagga cacatgacca gccctaagca ataacattca tgtggctccg 180
 aaaaaggggtg agaatggagg attgccttga gggctctcac ttangcaatc atggaacaca 240
 gctccaaact cgaaaatgga ggacacgtga acaaccctaa gcaatagcat tcatgtggct 300
 ccgaanaagg gtgagaatgg aggattgcct tgagggctct cacttangca atcatganac 360
 acaactccaa actcgaaaat ggaggacaca tgaacagccc taagcaataa cattcat 417

<210> 19752
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19752

gtttacaaag cgtcgatgcc aagtgtatac tgtttttatt tcatgntaca attgtacgca 60
 gcttgtgtct ccttcataga gagggcatgc acgatggcct ttaacactgc attcattcaa 120
 attcctatat gctagaaagt cattaatggg gcccaataac attgcacaca acttgaatga 180
 tcaatttgga tagccatcaa acacaacaat gcactcatac tacaactttg tcaagtactt 240
 aatcaaggga ccgagataaa caccaatatc atatcctcgg ctgtcttgcg gctgatagca 300
 tcattgacaa catcatgtat atttgttgca tgcgcgaacc 339

<210> 19753
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 19753

agcttgctcg aycatglatc aacttatacc aatgtgtatg agttacggac aaagcctgaa 60
 tctttgattc aaaagaagac gccaaaggaat aaagctcatc ttgtgagacg cttgggtcaag 120
 gtggagtaca tgggtgggta gaacatgatt gaacatctta aaaccttcaa atgtattggt 180
 aatcaattaa agaagataga tatgaatata gattatgaac taaaaactct tctactcctc 240
 aattctctgc ctgagagtta ggacacattg gttgtcactc tcaacaactc taaactagat 300
 ggaaagctta gcatggataa tgtcacagat agtttgctaa atgaagagtc ta 352

<210> 19754
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19754

tgaatcggac atccgtgtga naagatatga ccatttgaat tttgtgcgtc tctatatgcg 60
 atgctcctga atcggacatc cgtgtgaaaa gttatgacca tttgaatttc tcaagagctt 120
 ccgttgacac atatcgagcc tctcgtcata tgatgcgccc gaatcggaca tctgtgcgag 180
 aagttatgac cattagaatt tgacgagaac tcacgatgag caatatcaag cgttactata 240
 tgtgaggcgc ctaaattgga cattcgagtt aaatgttatg accattcgac tgtctcaaga 300
 gcttgcgctg atcaattttg agcgtgtcta 330

<210> 19755
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19755

tctcgatata ttatgcacat gaatcagact tccgtttgat aagttatgac catttgaatt 60
 tctcgagagc attcgttggt caattntgag cgtctcgata tattatgcac cagaatcgga 120

cttccgtgtg actagttatg accatttgaa tttctcgaga gcattcgttg ttcaatttcg 180
 agcgtctgga tatattatgc gcctgaatca gacctccgtg tgacaagtta tgaccatttg 240
 aatctctcga gagctttcgg tgttcaattt atagcgtctc gatatgtgat gcgcccgaac 300
 cgtacttccg ttgacaagtg atgaccattt gaatttctc 359

<210> 19756
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 19756

agctttcact ctggaagtct gggtcaggcg cataatatat cgagacgctc gaaattgaac 60
 aacgaatgct ctcaagaaat tcaaattggc aaaacttgct acacggaggt ctgattcagg 120
 cgcattatat atcgagacgc ttgaaattga acaacgaatg ctctcgagaa attcaaattg 180
 tcataacttg tcacacggag gtccgattca tgcgcataat atatcgagac gctcgaaatt 240
 gaacaacgaa tgttgctcag aaattcatat ggtcataact agtcacacgg atgtccgatt 300
 catgcgcata atatatctag acgctcgaaa ttgatacacg aatgctctcg agatattcaa 360
 atggtcataa ctttgtcca 379

<210> 19757
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19757

ntgatgggtg cgagaagaca tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60
 gtatgtatac atgattttga tgatgcaaaa gaagaatcaa actaagttgc ttcaaaggat 120
 aagcatggct ttaagattaa tacaagattg attcaacaaa catagccttg cttcaagatt 180
 aactcaagat caagcctggc cttaaaacaa agtgctttca agacatgcaa ggctctggta 240
 atcgattacc aagcagtgtg atcgattacc agaagacagg gttgagaaat agctgttgaa 300
 aagggttttg aatttgaatt ttcaacatgt aatcgattac catatgtttg taatcgatta 360
 ccagtggaga gttttcaaaa aagtcatgac acttcacatt ataactgtgt aatcgattac 420

acaaacattg taatcaatta ccagtggaga

450

<210> 19758
<211> 394
<212> DNA
<213> Glycine max

<400> 19758

atcttctaaa ctctatacaa gaatgaagct ctgataccac ttgtagaca attggcctca 60
gatatcttaa gaaggggggt tgaattaaga laltgcaaac tattttccca attaaaattc 120
tattttcaatt tcaatgcaag ttacaaattc ccttaaaaaat gaactcttaa ataatgattc 180
acatcgaaca atctgaatat aaatataaag caataataaa taaaagagtt taagggaaga 240
gaaagtgcaa actcggattt atattggttc ggccacaccc ttgtgcctac gtccagtccc 300
caagcaaccc gcttgagaat tccactatct tgtagaagct ttacaagtt ctgaacacac 360
atagacagtt cttcctttga gttcatactt cttt 394

<210> 19759
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19759

tccttaagaa gattcctaaa gaagctagag cttagctaca ctcacatctc taatagctaa 60
gtcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaagc 120
tcacccccat gacaaanaaa gatgaaaata caaaaaaaaa aaagtcctta ctacaaagac 180
tactcaaaat gccccgaaat acaaggctaa aaccctatac tactagaatg gccaaaatac 240
aaggcccaaa cgaaggaaaa acctattcta atatttacia agataagcgg gtcatactt 300
agcccttggg ctcaaaatat accctaaggc tcatgagaac cctagggcct tcccttggat 360
ctctagccca atctacttgg agtcttctac ccaatgccct tgcgggatag gatggcatca 420
ataactttca catgg 435

<210> 19760
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19760

tctttgagan aacttccttg agaagctaga gcttagctac tcttaccct ctcataacta 60
agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctac 120
acatacctc ctaalagcta agctcacctc cttgagatga gaagctagag cttagctaca 180
cacccttat aatagccaag ctcaccccca tgacaaaaaa catgaaaata caaaaaaaaa 240
gtccttacta caaagactac tcaaaaggcc ccgaaatata aaggctaaaa ccttatactc 300
ctagaatgac caaaatataa ggcccaaacg aaggaaaaac ctattctaatt atttacaag 360
ataagcgagc tcatacttag cccatgggct cgaaatctac cctaaggctc atgangaacc 420
ctagggcctt ccttggatct ctagcccagt c 451

<210> 19761
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19761

agctntanaa gattggctaa gattttgtta aattataagc acttagacaa tgaaggaaag 60
ctggagttgc tgcacatgat gtccaacgtt atgtcaagga ataagatcgg gctgcacaat 120
gcacaaggca agataaaatg tctaatagaag aattgaagtt gcaggatcca cgatgtcgga 180
tacaatgtcc tgacatcctg cccgaaaata ctggagttgc tgcacaatgc ataagtcaag 240
ataaagtgtc aaatgaagca ttgaagctgc aggatccacg atgtcggata cgatgtcctg 300
acatcttgcc cgaaaatact ggacacataa atctgttata tctttaacag attattgtgc 360
agttagcaag agattagatg atctatcttt aggaacgaat taaaagatca ttanagttcg 420
aatttc 426

<210> 19762
<211> 443
<212> DNA
<213> Glycine max

<400> 19762

agctcgaaac atatagattg aatcctagct cctcttaagg acttagttat tatatctgtc 60

aactgggtcat tagaattgat gaaccacgagc ataattctct tggacaataa tttctctcga 120
atgaaatgat aatcaatctc tatgtgttta gtcttttcat gaaagactgg atatgacgca 180
atgtgaagag ctgcctgatt atcacagtat aacttcattt gcaccacttc acaaaattcc 240
aactcttgga gaaattgttt aatccacata agttcacatg taaccatagc catagatcga 300
tattcagcct ctgcactaga tcgagcaaca acagtttggt tcttgctctt ccaagcgata 360
acattccctc caataacaac acaatatcct gaggtaaatt tgctgtctat gggacaacca 420
gcccaatctg catcacaata tct 443

<210> 19763
<211> 389
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19763

ttgatgtttg tgttgaatgc attaaaggta nacagacctt atgcacgana taagtgcata 60
tagggctaca gacgtcttag aattgatata tacgaatata tgtgggtcat ttcatacacc 120
ttcgtggagt ggttgacaat attttatatc attcatagac gattaatcca gatatgcata 180
ctttgttctt atacatgaaa agccacaatc tttggatgtg ttaaaacatt taaagtttaa 240
gttgaaaatc aactcaaca aagaataaag tgtgtcagat ctgaccgtgg tggtaaatac 300
tatggcagat atgacagttc aggtgaacaa tgtctggngc cttttgccag gtatctagag 360
gaatgtggaa tcatcccaca atacaccat 389

<210> 19764
<211> 412
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19764

agctntcata tgatggtggt agagaggcta acttaatcat ggtagcatct tcatcctcta 60
tcttaacatc tataatctctt aattccatca aaatagaatt caattcatca agatgatctt 120
taagagatgt accttctttc atgtgtaaac caaataaacg cctcttcaag aagagcttgt 180
tgcagattga cttagtcata tacaactttt ccaacttgag ccataagcca cttgcagttt 240

cttcatttgc aacttcatat aaaacttcat cagacaagga aagcaagatt agtgagtgtg 300
 ccttttcttc ttgttctgca agttcttcag tctttgaaat agaggccttt tcttttgatt 360
 cagaagccac ttctttcttc acagatgcag aagcaacaat agcctaaaca cc 412

<210> 19765
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 19765

agctggctac attgatgcat actgactatg gcttgtgcga ttttggcact taaatacggg 60
 aggctcaagt tgtctatcaa agaagatgat ggtgagagta ctaccctcta ttaaccaccc 120
 taatcaactt tgtgaaggaa gatgactcag catgaaagtg ataacgagtt ttccgcagga 180
 gtcagactag agctaagaag ccgctcgagc taatacatgc tgacgtctat gggcccatca 240
 agccatgctc actacgtaaa ataattatct cctccttttc attgatgact cttgaagaca 300
 aacatgggtc tattccgtat agcacaagtc agaagtgttt tctgccctta agaagttcag 360
 agctacagtg gagaaagaaa atcgcttatt tatccacgcc atgaggattg accg 414

<210> 19766
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19766

cgtgggntaa agtctcacia tagtcacgtg ttaatgtttc tttgttagcc gnggctatat 60
 gagacatctt gcgaaacaaa gtcaggtag ccatgactcg cctgtgcttt ttcttgcatg 120
 ccatatgtag caaagtcgtt gatccctgca agtatgatga gcagtgaaat gaggctgcaa 180
 ttatactgtg ccagttggag atgtattttc cccctgcttt ctttgacata atgattcact 240
 tgattgtgca gtggatgtac ccggttgagc gatacatgaa gatcttaaca gggatatacag 300
 agaatcaata tcggctagaa gcatctattg ttgagaggta catctgtata agaagccatt 360
 gacttctgtt agaatacatt gagaacgcta tacctgatga cctctctgag tctcgacatg 420
 atga 424

<210> 19767
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19767

tgccaatly anlaangly aalugagelt aolraadaa lclttlecat cgaqf rali 60
 gaaacaagtt gttcaataga ctgcaaaacc tttttttttt tgtctttatt aggattgaat 120
 aatgcaccaa gtttattggt attgctgatg tgcatagatg ttgacagggc tgatatttgg 180
 tcttttgga ttacggcact tgagttgggt catggccatg caccattttc aaaatatacct 240
 ccaatgaagg tatttacatc ccgtggttgt tcagagacaa tgtctagaca catgttaaca 300
 ttggaccgat tgaagttcat gtgatataat ttgtaataaa agaaaaagag agttcacttt 360
 ttatttcatt tataggttct tctaatagaca atgcagaatg cccctcctgg acttgatgat 420
 cgagataaaa agttctct 438

<210> 19768
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 19768

agcttagaaa gacattattt cattcataac attatgtaaa ctagagagcc atccacaata 60
 tgcgaataaa acatatatga ataattaaag gacatagaac acaataccga atgtaagtac 120
 ataccactag ccatatatca ttgaaggaat taagggtaag acacataatc ataaacagcc 180
 aagagcaggt ctatataatc ataattgtca ggcatactaa gcaagtgtta aaagaaatac 240
 tacgtgttca aatgtcataa aaacatatgc aaatacaagg cttacgaaca aatataatta 300
 taatctaaat atattatccg agaatacaaaa ctttaattcta agtaacaaaa attagatatg 360
 aacacataca tggttaactta ttacttatct cgattaatga accactagaa tgtaagtatc 420
 gaataacaat ca 432

<210> 19769
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 19769

agcttataaaa gataaatgat gacatgattt tttcccaatc acactatggt gaaaagctgt 60
tgaagaagtt taattatatt gatgtgaaac ctgtttctac tccttatgac tcatccatca 120
agctaaagaa aaatttgggt aaaggaattt cttcacataa atattctcaa attatcgggt 180
ctttgttgca ttgacaaac ttctctaggg ctgacattgc atatgcagtt ggtagattag 240
gaagggtgtac taataatcct gatcattctc attggattgc attagaaaga gtttttagat 300
acttaaaagg aaccatcaat tatggcattc attatacatg ttttcctgca gtaattgagg 360
ggtttagtga tgcaaattgg atttctgatt ctgatgaaac aaaatcaaca agtggttatg 420
tttttacttt a 431

<210> 19770

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19770

agcttaagct cnttcaactg cacaagcctc ttgttatttg aagagtatcc ttgtggaacc 60
ttcacccaac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120
gctgngggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtataccc 180
atatcagcta gatcttgacg ggtattcaag ccatacctcg tcttgccctg aatgttaagg 240
agcatcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300
ctaacgtcaa gatcacacca gtacgaaaga tcaaagaaaa tggacctctt cttccatatt 360
caactctgac tnttatcctt cttttgggtc ttcccaaata cagtattcag gtgttgaacc 420
cattgatata cctgctcacc agtcaac 447

<210> 19771

<211> 397

<212> DNA

<213> Glycine max

<400> 19771

agcttaacaa gtggaatcag aggaaagtct ctatggcagg ctttaattact ttaattaatt 60

ctgttctgac agccttgccct ttattttatc tgtctttctt caaagctcct tcagcagcgt 120
tagtgaggct gacttcaatc caaaggaatt ttttgtgggg aggaggtgct gaagggaaaa 180
agatcgcttg gatggcttgc gatcatatat gtactcctag aatcaagga ggtttgggta 240
tcaaagctat caaggatctt aatagagccc ttcttattaa atggaagtgg ctgatgtttc 300
accaatcaga ccaattgtgg tgcagaatcc tcatcttaca atacacaga tggagagggc 360
tggaagagaa ttccacagc cagtctcatt ccttctg 397

<210> 19772
<211> 285
<212> DNA
<213> Glycine max

<400> 19772

ggcctatga cagtggcaag ccctgaacga atgattcttg cctatgttgt ggcgggctag 60
tcgcacagaa ctacctgtg tcaactatac tcagagatgc aatctgacac cttatgacac 120
atatcaggta tatattgtca tgactttcaa gacatactta ctgtggcctc gagagattca 180
ggactgacca ttgcccatag tatgaacaca tctcgccctac tgcattacgt ccatacgaag 240
gctccagtca cgagttctct gctaccattg caccacgaca cagtg 285

<210> 19773
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19773

cgcttgagct ggtatctgng ttaaaaaana attcgcattt ttctttgttg gagcaattgg 60
gaagaatgag cagtggcaga tggaggcagc tagatacctg aactgtggag ttctgtcctt 120
tccttttgca tacttgggta tccccattgg ggataatcca agatgtagtg atctttggga 180
tcctatagtc agaaaattcg agagaaaatt agcttcttgg aaacaccaac atatttcatt 240
tgggggggaga gtgacactca taaatgcagc cctagcagca atccctatct actttttttc 300
ctttattagg gtaccttcaa gagtaatatc cagattggaa gcaattcaga ggcaatctct 360
atggngagga ggtatggatc agagaaagat tgcttggggt aattggaaaa cagtctacaa 420
tccaaaggat atatgaggac ttggc 445

<210> 19774
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19774

atggaagtac taagtattta ttacctatac ttaacagaaa atacttataa cacaacaaaa 60
 taaccataaa ttggaagagt ttgatacaat ttacacaagt tttatacaca aaagttagtc 120
 gtgttcaccg actaacacca tgcagcgcaa agggaagcat ctctgtgcaa tccttgtatg 180
 acacggtcac cttctgaact atatcttctt gatattntta ttagcggcct caactgcctc 240
 attcatctta agccagtaag gcatggaatt atgggtgtag atnttgaaat cctcacacat 300
 ctcttctatc atcttgttgt tcagattggt ggcattgaag gtgataattt tccttagcaa 360
 cccatatcgg caaattatct cccttntgat gaaactaatc ac 402

<210> 19775
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 19775

tatgttaatc aattagactt tatccgtatc cttgtggatg tataccttga atactgccat 60
 gtagttgttg aacatgggtt ctagtaatgt aattccaaag acacctcttg agctgtagac 120
 aaataggata cctactataa tgcacctgca tgtatggggg tgccaggcag atataacgat 180
 ttataatccg caagaaagaa aattggatgc aagaacaatc agtggatatt tcattggtta 240
 tccagaaaag ttaaaagggt gtatgttcta ttgtactact catagatgag aactgacaaa 300
 ct 302

<210> 19776
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19776

ntgatgaaag tgcagtctga aggtagccaa atacgccttc tatgcttaac gaagttgggc 60

gttaacacat gatcagggta gtctgctggg ttgcatgaa cttctccct taaagtgatg 120
 aagtcattat gcgactgcaa ctcttatag agatcttcaa gaaacacaaa atgaggcatt 180
 gagaggatga aacatgaggt actaggaat tctgaacatc gcgataacgc gtctgcaacc 240
 atattagttt tgcctattcg atattgtata gagtaatcaa atcccaacaa tcttgcaaaa 300
 tatcaglgel gttccagcgt tggaaaggcc tggctcatca attctttcaa gctctctgca 360
 tcagtcagga ttataaagtg gtgcccata aggtattgcc tccatttctt aacagcagtg 420
 gtaatcgag tgagttcacg aacataagtg g 451

<210> 19777
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 19777
 agctgtgccg tgatggtgca tttgaaattg gtgattgggt ttatgttcgc cttcgccct 60
 accgccagac gtccatagcg tgcacttaca ccaagctttc caaaagattt tatggcccat 120
 tccaggtact ggatcacata ggcccagtggt cttacaagct tcagctgcca ctttcttccc 180
 gcatacatcc agctttccat gtatccctct tgaaaccgca tcttgggcca tctcgacta 240
 caactgccac attgccatct acagggaaca accaccaact cttggtctct cctttatcca 300
 ttctggattg gaagtgggac cattcatctt cccaccta caagaaagtc cttgtttagt 360
 gggatggctt agcatcgaag gatacttcat gggaaactatg ggacaagctg cgtgttgctt 420
 atgaccttga ggac 434

<210> 19778
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19778

tgttagactg tttcatacaa gatatggaaa caaacaata ttcttctata tcgcangtct 60
 cccagaacag gtcagaactt tgaaacatat atgaatatga tgatgactat gaaactgata 120
 ttgattccaa taaagcatcc atgtactctt taagtttcaa ttttgtaatt gcaccttcca 180

ttctgctttc tggaacttcc tgcccgttct tgaagagtat taatgtcggg agtccataaa 240
 ctttatactc ttaaattact tgcgggttga catcatgata aatctttaca accgttaatc 300
 tgtcttcata ttcttgcaag ttattattat aaaaaataat catggtccag gggagacaaa 360
 ttaagatcct aaagatcact tgacaatagt tcttaggaaa atcatactat ttgtttcaca 420
 ccargctatc cccaccatat atagcctata 480

<210> 19779
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19779

tctcgatatg ttatgctgtc gaatcggaca tgcgagtgtg gttttgtgat catnttaata 60
 tcccagagagc ttccgttggt caatttctag catctcgata cgctatgtgc ctgaatcggg 120
 catgcgagtg aaaagttatg accatgtgaa tttctcgaga gcttacgtag ttaaatttct 180
 agcggcatga tacactatgc gcgtgaatct gacatgagag tgaaaagtta agagcatttt 240
 aatttctaga gagactgcga tggtgaaagt cgagcgacat gatgtgtcat gtgcctgaat 300
 cggacatgag cataatacgt tatgaccata tgaatctctc cggagcatct gtcgtgcaat 360
 tacta 365

<210> 19780
 <211> 424
 <212> DNA
 <213> Glycine max
 <400> 19780

tgatttcttg gcctgcttgt gtcctttttt cgggtgttctg tttatttcag tgcctttagg 60
 ccttggaata gcggttaagat aggaattcct taatctgctt cctgccatta gaaacctaaa 120
 attcattgta tgctaatact atgtgtttta tattactgac ttcgccaaaa tcttcagggtg 180
 gcaatatcag tcttcaagat cttgcttcat gtctctagga caaacacact ggttttgggg 240
 aatataccag ggacgccaat attccacaac ctataccaat atagagaagc tttgaggatc 300
 ccttcattta tcattttggc tgttgagtct cccatctact ttgctaattc aacgtacct 360
 caagaaaggt tagataaagc gacttgtaga ttggcgattt gtgaatgctt actacatttc 420

aaat

424

<210> 19781
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19781

tgtgcctttt cactgtctgga atatgaatgt agcatataga ttcaaagacc cttaggtgct 60
ttgttgatgg cttcttcccg atccaagctt caattggagt cttgtctttt acagacttag 120
ttggacatct gttgagtatg taaacagcag tgtagactgc ttcagcccag aatgtgttag 180
gtagtccctt ctccttgagc atcgatctag ccactctccat aactgtgcga ttctttctct 240
cggacactcc attttggtga gaagaatatg cgactgtaag ttgtcgctca atgccttcat 300
cctcacaaaa tctttcaaac tcgcgagagg tgtactcttt gctgcgataa cttcttagta 360
cttttatccg ttttccactt tgattntcag caagggcctt gaactttttg aataactcaa 420
agacttctga ttnttcttt 439

<210> 19782
<211> 439
<212> DNA
<213> Glycine max

<400> 19782

gatctctaag cgactgagca tgcaagcttt gtactccact aaatttgcct ttgtttgacc 60
aaagctaata ccgctgacaa ccttgtgaaa gctgtgcacc caggatacaa aggcattctt 120
gaatcatttt ctattttctc atacaaaggt acatgtgctt gttgaaatct gtcctgcccc 180
aaattgcaaa tcatgtcttc tatacgggtat cccatgtcta catcgactga ctcaggggtga 240
gagactgatg gcttgttttg caattcccca tgccatatcc attttgtgta atttggaatg 300
atcctatgac atatattgac tgggtgtctcc tattccacaa ttttacgcat ggacagaaaa 360
atttaccctg cacacatggt gcattgagtt tagtaaattg gaggaattgg tcaactctat 420
tctcatactc gtcactgat 439

<210> 19783

<211> 429
 <212> DNA
 <213> Glycine max

<400> 19783

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agcttgacga ctgtggactg atttatattct cttatgaaat gatgatcaat ggcaatgtgc 60
rtagatcgrt catgargaac aggattcgaa gcaagactta tagcagatgt attatcacat 120
aataacatcg cagatggcac atcaacttca gagtgaagaa gtaacctgtg taaccaaaca 180
ctttcactat taacacacga caagacacga tattcagcta tagtggatga ttctgaaaca 240
gtgggttggt tcttagaacg ccaagaaaga aggttggttc ccaaaaagac acaatagcca 300
gaagtggatc ttctagtatc aacacaattg gcccaatcag catccggaca ggcactgagg 360
tcgagagagt tctgagcacg gaataacaaa ccttgtccag gagcacattt gatatactgc 420
ataagatga 429
```

<210> 19784
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19784

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agcttctaaa ctntatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
aatatctaca gaaggtgggg gggttgaatt aacatatcac aatcttttct aaattaaaaa 120
ttctattttg attctaacc atattccaag atttctttca aaaatgaact cctaaataat 180
tatgcaaatt aatcttacta aatagaaaca ataagcaata tacaataaaa gagtttaagg 240
gaagatagat tgcacactct gatttatact ggtccggcca cacccttgtg cctacgtaca 300
gtctccaaac aaccgccttg agagtttcac tatcttgcaa aagcccttta caagttctaa 360
accacacaag gacaaccctt cctttgtgtt aaaattcttt acaac 405
```

<210> 19785
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19785

tgaaggtgtg tagcccacca tcttttcata gttgaatatt gttaatgtgt ctactattat 60
 tgtcatcatc tttttctccg tcattgaggt gccacttgag ctgccaggtc tctccacctt 120
 tgggcgtatt cttttgaaga atttgtgccc cctttttgca catgttttgt agttgcatcc 180
 tatccgaagc cattataccg aactgccta acgaaggcaa ccattagggtc ctcccaggaa 240
 tggactcggg aaggttccaa gttagtgtac caggtaacaa ctaccccgagt aagactttct 300
 tggaaggaat gtatcaacaa ttctcttctt tttgcgtatg cccgcatctt ccgacaatac 360
 atcttttagat ggttcttggg gcaagtaatc cccttgtact tgtcanagtc cagcaccttg 420
 aacttgagag gggatgatgat att 443

<210> 19786
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 19786
 tcgaacaaca gaagctacga gaactacaat ggtcattata tgtcacacgg aagtccgatt 60
 caggtgcata atatatcgag acgctcgaaa tacaacatcg gaagctctcg agatattcca 120
 atggtcataa cttgtctcac ggatgtacga gtgacgtgca taatgtatca agaagctgga 180
 aattgaacaa cgaaagctct cgagaaactc tgatgggtcat aacttgtcac acggacattc 240
 gacacacgcg cataatatat cgagacgctc gaaattgaac a 281

<210> 19787
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 19787
 agctcgaatt tgaacaacag aagctcttga gaaattcaaa tggccataac ttatcacacg 60
 gaagcccga tcatgcgcat aatatatcga gaccctcgaa attgctcatc aggaagccct 120
 caagaaagac aaatgggtgat aactcttcaa acggaagtcc caatcacgag catatatata 180
 tcgagaagct tgaaattgaa caatggacgc tcttcagaaa ttcagtcagt catatctcat 240
 cacacg 246

<210> 19788

<211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19788

ttacgagcgt ctcganatcc tacgggactc tattggtcat ccgagtgaag agttattgtc 60
 ggtcgtatll gttcagcgtc tatggttcc at ctuagcg tttcgtatcc ccacgggaca 120
 caatcggaaa tccgagttaa aggttattgt cgttagaatt ttctcatagc ttccgttttc 180
 aattacgagc gtctcgatat cctacgggac acaatcgaac atccgagtca aaagttattg 240
 tcgtttgaat ttgtcagag cttcagtttt caattacgag cgtgtggata tattacaaga 300
 ctcaatcaga catccgagtt aaaagttatt gtcgtttgga ctttaataga gcttctgttt 360
 tcaattagag cgtctccata tattacgaga ctatattaga catccgagtc aatagtatgg 420
 tcgtttactt tcacagagct tgcgtgttaa tttgagcggc cgatatatat 470

<210> 19789
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19789

agctttgagg aaattcaaac gacaataact tttgactcgg atgtccgatt gtgtcccgtg 60
 gtatctcgag acgctccaaa ttcaaaacag aagctattag aaaaatctat ggacgataac 120
 tttttacacg gatgtcccat tgagtcccat aatatatcga gacgctcgta attgaaaaca 180
 gaagcgtga ccaaattcaa acgacaataa cttttgactc agatatccga ttgtgtcccg 240
 taatatatcg agacgctcga aattcagaac aaagctatta gaaaaatcaa acgacgataa 300
 cttntacac ggatgtccga ttgagtcca taatatgtcg agacgtttga tattgaaaac 360
 tgaagctctg agaataatca aacgaccata acttttaact cggat 405

<210> 19790
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19790

tgtagaaaat cganacgaca aannatttta tctaagattt ccgaataaat tccgtagtat 60
 atcgagacgc tcgaaattca aaataaacct ctcagcaaaa tgaaacgaca ataacttttt 120
 actcgaatgt ccgaatgaat cccgtaatat atcgagacgc tcgtaactga naacagaagc 180
 tctgagcaaa ttcaaaagat aataactttt tactcgtacg tccgattggt tcttgtagta 240
 tatcgagacc ctcgtaattg aaaccagaag cccgtagcaa actcaaacgg caataaattt 300
 ttactcggat gcccgaatga atcccataat atatcgaggc gatcgtaatt ganaacagaa 360
 gctatgagca aattcaaacg acaataactn tntactcgga tgaataccgt aatatatcga 420
 gagcgtcgtg attganaaca aaagctctga gcacattcaa acgacaata 469

<210> 19791
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 19791
 agcttctgtt ttcaattacg agcgtctcca tatattacgg gcctcaatcc gacatcggag 60
 taaaaagtta ttgtcgtag aatttgc tca gagcttctgt tctgaatttt gagagtctcg 120
 atatactacg gaacacaatc ggacatctca gtaaaaagat attgtcgttt gaatttgctc 180
 agagcttctg ttcttaatta cgagagtctc gatataattac gggattcatt cggacattca 240
 agtaaaaagt tattgccgct tgaatttgct caaagcattc gttgtcaatt acgagcgtct 300
 agatatatta cgggattcat tcggacatcc gagtaaaaag ttattgtctt tttatcttgc 360
 tcagagcttc tgttttcaat ttcgagcatc ttgatataatt acatgactca atcggacatc 420
 cgag 424

<210> 19792
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19792

tataagtgag gcctngtgag aggatttgct caaacctcc tatatcagta cttgtagtaa 60
 taaagctgac actactacta ctaaggcaag gataagatgc agcatcgacc aaagctntct 120

gaagaacaaa tctgttaagg gtaccacgga acttcttgaa cagcatgtgt ggaggcccca 180
gagaggggttg ccagagcgtg cagtggcaat tcttaaagcc tggttatttg agcattttct 240
tcatecgtat gttagtctct atctatgtct cttattaata tatttcttgc ttcgtgactc 300
tcttttctgc attctaaaga gacatttga ttgaattgtg tgcttttttt gctgatgttg 360
aatactctctt tcatcaccct acagacactg attaacacac gct 403

<210> 19793
<211> 412
<212> DNA
<213> Glycine max

<400> 19793

agcttatata ggaagcttca aaggagaaac aaaatgagag agaggggaaa aaagtgacat 60
gggaatgaag gaaagatggg gaaagaagtt gaactttgac tcgtatgcaa taccatactt 120
cgagagttca attgaccatg tcatcatttg tctgactaac tcaggcttgc gtaatatctt 180
gcctattggg caatcagttt gaacagtgat cttgtggctc tgaaagtatt gtcgaaggta 240
gcaagcggcg ttgaccagtg tgagggtac cttttccatc acctgttacc tcgtctctag 300
atcttacagc tcccgactta caaagtatat cgacctctgc tatcttcctt cctcttgtat 360
caataccacg cttatggcct cgatcgagat cgacaggtaa acaatcaatc tt 412

<210> 19794
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19794

agcttatgct acaaacatct acaacagacc tctcaacct cagcagcaaa atcagccaca 60
acagaacaat tatgacctct ccagcaacag gtacaatccc ggggtggagga ataatcccaa 120
ccttagatgg tcgaatcctt cacaacaaca gcaacaacaa caaccttatt ttcaaaatgt 180
tgctagccca agcacaccat acgttcctcc accaatccag catcaacagc agcaacagcc 240
ccagaaacaa caaatagttg aggctcctcc gcaaccttcc cttgaagaac ttgtgaggaa 300
aatgactatg ctaaacaatgc agtttcaaca agagaccaga gcttncattc agagcttaac 360
taatcagatg ggacaattgg ctacacagtt aaatcaacaa cagtcccaga attctgacag 420

attacct

427

<210> 19795

<211> 489

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19795

nggttcccaa cgctttgttc anactctccc anaacctaga ggttttatag aatctctatc 60

agacactatg ctagatggca caccatgtaa tctgacagtc tcactaatgt acagggaggt 120

caacttctct aaggaaaacc taatattgat ggggataaag tgtgtagatt tggccaatct 180

gtcaacaaca acccaaatag aatcaaaaacc tttgggggtc ctaggtagtc ctacaacaaa 240

atccatgggg atactatccc acctccactg nggtatctct aatgggttgta acttacctga 300

aggtctctga tgttctatct tagccttctg gcagactaaa cacgtataca caaactcgtt 360

aacctctctc ttcattgttg gccaccanaa cattatcttt agatccggat tcattcttgg 420

agcaccaagg tggatgctca nngtgctcct atgaccttcc tctaagatca tcttcctatg 480

ttcggcaca 489

<210> 19796

<211> 407

<212> DNA

<213> Glycine max

<400> 19796

agcttagact gagttcatcc taccatcctc agactaatgg ccaaactgaa cggaccattc 60

attcgttggga ggacctttta agagcatgtg tcttagagca gaaggggaagt tgggagagtt 120

ttcttccatt gatagagttc acttataata acagttttca ctctaccatt agcatggctc 180

cctatgaagc tttgtatgat agatgatgta cgacaccctc atgttggtta gagcccggag 240

aaggcctcac cttatgacca gacgtggtac acaaaccac tgagaaagtt tagttaattc 300

aggaaaggat gagaactgct cacagtacgt agaatagtta tcatgataag aggaggaaag 360

aattggaatt cgacgttagc gatcatgtat tcttgagagt cactctg 407

<210> 19797

<211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19797

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tgtcatcgat taccagagga cattntcaga aaattatttc tatgagtcac aacttttcaa 60
atggctctta catggccatc aaaggtctat ttatatgtga cctgggaacac anatttgytc 120
acaatttttc agaacaaaaa ggttttatcc tctcaaaaag caaaatcttc ttatcctctt 180
aagattcctt ggccaatata cttgcaattc aataaggatt tatttgagtg ctcaaattgt 240
tcaatctatc tctttcaaga gagatttctt cttctcttca ctctaattct canaaaggga 300
ttaagagacc gagggctctt tgttgatatag aaatctgaac acanaggaag gattgtcctt 360
gtgtgggttca gaacttgtat agggatttac aagatagtgg aactctcaag c 411
```

<210> 19798
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19798

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gtgggtntca attacgagtg tgcgcatatc ctacgggact cttttgacat ccgaatcana 60
agttattacg tttgactttt cctagagctc ccgttttcaa tttctagcgt ctcgatatat 120
taaggggctc aatcggacat ccgagttaaa agttattgtt gtttgacttt tcttagagct 180
tccgttttca attttgagcg tctcgatata ttacagggtt cgattagaca tccgagttaa 240
aagttattgt cgtttagattt ttctcagagc ttccgttttc aattacgagc gtctcgatat 300
tctacgggac tcagtcggac atccgagtca aaagttattg tc 342
```

<210> 19799
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19799

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agcttagagt tgataagtat tctagcttac aaacttcatt ggatactgga acagctaaag 60
gcttaaccaa gggaaaaaga gtcattctac cctcaacgtt tggtgggagc ccatgttata 120
```

tggatcaact ttactttgat ggtatggcaa tatgcagtca tgttgggtct ccaaàtcttt 180
 ttattactct aacctgtaat ccaaattggc ccgaaattcg tagattactt tcacctttga 240
 atctcanacc aacagacagg ccagatattg tatcacgaat tttcagatta ataaatataa 300
 acacatgctg tcagacttaa caaaggggtca attactgtga aaagtgggtg catgtaaytt 360
 gaccaacatc ttataacta aacacaaata caagtgggtc att 400

<210> 19800
 <211> 507
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19800

tattacggac actatagata ctacagctana cattcaattt cgagagtctc gttatattac 60
 gggactcaat cagacatccg agtaaaaagt tattgtcgta tgaattggct tatagcataa 120
 acattcaact ttgagcctct cgatatatta cgggactcaa tcagacatcc gagtaaaaag 180
 ttattgccgt ttgaatttgc tcagaggttc aacattcaat ttcgagcgtc tcgatatatt 240
 acgggactca atcagacatc cgagtaaaaa gttattgtct tttgagttgg ctacagaggtt 300
 caacattcaa tttcgagcgt cccgatatat tacgtcaactg aatcggacat ccgagtaaaa 360
 agttattgtc atttgaattg gctctgagct tgaacattat attacgagcg tctcgatata 420
 ttacgggact caatcagaca ttcgagataa aagtattgtc gttgaattgg atataagaca 480
 acattcaatt cgagcgtctg atatata 507

<210> 19801
 <211> 342
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19801

agctttatgc caattcatat gacaataact ntttactcgg atgtctgatt gagtcccgca 60
 atataacgaa acgctcgaaa ttgaatgctt aagctctgag ccaattctaa cgataataac 120
 tatctactcg gatgtccgat tgagtctcat aatatatcga cacgctcgaa attgaatgtc 180
 gaagctctaa gcctattcaa acgacaataa cgttctactc ggatgttcca ttcagtgcgc 240

taatatatcg ggacgctcga aattgaatgt tgaacctttg agccaactca tacgacaata 300
actttttact cggatgtctg attgagtccc gtaatatac ca 342

<210> 19802
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19802

atgaagtggc tngacctttc catactgagt atcatggact gtattctcct acttttggaa 60
cattatttta tctcgaatat ctagacttgt cttcaaacia gtttgaaggt tcaattcctc 120
ccaaattgtg tgctctaagg agcctcaaaa cattgaacct ttccaataac tcgctggtgg 180
gagagatacc aaacgaactt catggccttg agagtctaca ggattttcat atattcaaca 240
atcacttgag cggtttgata ccatcttggt tagggaattg gaccaatctg agagttgttg 300
ctgcttatga gaataattcc tatggaacgt gtacaagtaa acttgatct atttatgagc 360
ttacaacact taac 374

<210> 19803
<211> 233
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19803

tatgaaagct cttgagcatg tcgaatggc atatctttca cagcaggtc agactcacgt 60
gcataatata tcgcgacgt cgaaactgat caacggaagc tctacatata ttcaaattgg 120
catacttggt actcggacgt gcgaatcatg ggcataatat atccagacgc ttgaaattga 180
acaacgcgaa ctncgagaa gttcaaatcg gcataacttt ttactatgag gtc 233

<210> 19804
<211> 389
<212> DNA
<213> Glycine max

<400> 19804

agctttatct agataagtat gatcagggtt tttcaciaaac tgagtagcac atggattttt 60

ctcaaaacat gtttaccaaa gagttttact ctctggtaat cgattatcag attattgtaa 120
 tcgattacca gcatccaaat ggatttgaaa aagctttcaa actgaattta caacgttcca 180
 attaatttca aaaagctgta atcgattaca atcttttggg aatctattac tagtgccatt 240
 gaacgttgaa attcaaatat atatgtgaag agtcacatcc tttcttataa aagccttggt 300
 gatgtaactc ttccaaaggg tttgacttt 389

<210> 19805
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19805

ccaggggtgct ggaactactt cattttgact tgatggngcc tatgcatggt gaaagccttg 60
 gaggaagag gtatgcctat gttgttggtg atgatttctc cagatttacc tngntaaact 120
 ttatcagaga gatatcacat accttctgag tattcaaaga gttgagtcta agacttcaaa 180
 gagagaaaga ctgtgtcatc atgagaatca tgagtgacca tggtagagaa tttgataaca 240
 gcacgttcac tgaattctgc acatctgaag gcatcactca tgagttctct gcagccatta 300
 caccacaaca gaatggcata gttgacagga gaaacttgac cttgcaagat gctgctctgc 360
 gcatgcttca 370

<210> 19806
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19806

agcttgcaaa gttagaaata tcttgtttga ttccgatggt gtgaagtcaa ggaaagattt 60
 ttctattgcc atgatgaggt catctatagt tttaggagcc tctttgtggt gtaatgactg 120
 aatggcatta aagaagccaa gatctaagac attaaaatca agcaagtttg ggggttgaga 180
 aaccaatcga atgtcaaaac cgccttcact agcagcttaa tggaagtcgt tgtcatcttc 240
 atcaatgtga catggagcat tgtcttggtg tatgaaaata gtctctcttc tatccnctat 300

tggccatttt gctttgattg cagacaacac atgatgaata agaanatggt tgcttacttg 360
 ttttaattatt gaagatattg gttntgttcc atagtccctg tatctcttgt tgcactcctt 420
 ctcttt 426

<210> 19807
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19807

ntgagcaaatt tcaaacgaca ataaagtttt actcggatgt ccgattgagt ctcgtaatat 60
 atcgagaagc tcgaaatgga ataccaaagc tctgagcaaa ttcaaacgac aataactttt 120
 tactcggatg tcttattgag tcccataatt tatcgggaacg ctcgaaatag aataccgaag 180
 ctttgagcaa attcaaacga caataacctt ttctactcga agtcggattg agtcccgtta 240
 tatatccaga cgctcgaaat tgaatgttga agctctgagc aaattcaaac gacaataacc 300
 tttatactca tatgtcggat agagtcccggt aatatatcga gacgctcgaa atggaatacc 360
 gaagctctga gcaaattcac acgacaataa ctttatactc ggatg 405

<210> 19808
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 19808

agtctttgta ttcaatttcg agcgtgtcga catattacgg gactctatca gacatccgag 60
 taaaaagtta ttgtcgtttg aatttggtca gagcttcgat aatctatctc gagcgctcgc 120
 atatattacg ggactcaatc atacatccga gtaaaacgct attgtcgttt gaattcgctc 180
 agagcttcgg tctttaatat tgagcgtctc gacatatgtc tggacttate tccacttccg 240
 agtaaaaagc tatttggtt tgaatttggc cagaacttcc ggattcaaatt tcgagcggca 300
 cgatttatta cgggacttaa tctcacatcc gaatcaaaat tattgacgtc tgatttgcca 360
 gaacttcggt attcat 376

<210> 19809

<211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19809

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attgagtcctg ataattcaga atcttcacatc ggcaattgtg ttttggaggc atggaagtta 60
ccaggagtgq etccggttgc tctctgtctc tttttctcga agctcgtggc tacccttctt 120
ctgtactggg tgcccttcta cataaggcac acaggtaatc attattatta tattacatga 180
aaaattatga tatatataga gttgcattgc cttttatcta acatcagcat gttattcata 240
tgcgaagaat ttattactag tgtcttcata ttcttgatat attgtctcaa gggtttgtca 300
ctacgaattt ggagtgttg tttggtagga ctgggatgtg atgtgtcttt aggcagatat 360
gaatctgtgt gacagggtatt gcatggcggt ttattagcat gtatgggtgca atttgaatct 420
ggagaaataa ttgtatattt tcacaagctc tctcagcta 459
```

<210> 19810
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19810

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agctntttct tatgggtctgt accacacatt attataacga acacccttaa tgtcataaac 60
cataagttta tgattaaaaa aaatgttggt tagcatgacc tattaggtca tcccatgtca 120
actataatgt ggaaaatatt taaaaattca tgtggacatc catggaagag ccagaagatt 180
cttcagtcca atgatttctc atgtactatt tattctcaaa ggaagttggg aattacacta 240
tcaccaagaa aaattggaaa tgagtctatt ttatttttag aacggatata atgtgatatt 300
tgtggatcaa tatattcacc atatggatca tttagatatt tcatgatgca tcaacta 357
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<210> 19811
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 19811

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ctcatgagag agtcaaagat caaactgaga ggagatataa aagctatgtc tttctagcca 60
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acaaagggag aaagaaggtt gtcttcgaac cccgagattg ggtttgggtg cacatgagaa 120
 aagaaaggtt tccggaacaa acgaaatcaa agcttctacc aaggggagat ggaccatttc 180
 aagtgttga aagaatcaat gacaatgctt acaaagttga gctgcccggg gagtataatg 240
 ctagtccac cttcaatgtc tctgatttat ctctttttga tgcagatgga gaatccgatt 300
 tgaagacaaa tcttctcraa gagggacaga atgatgacaa catgttcaag agcaatgga 360
 aggatccact tgaaggactt ggaggaccta tgacaatggc taaagcaagg aaagcaagga 420
 agctcttcac aagtgtgcc atactatctt 449

<210> 19812
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19812

agcttcttca catagtccgc ctttgcttga ccttctttat gcttaanaac agaaacatta 60
 ggcataaggca aaagatcaag aggagttagt ggggttaaac cataaacaac ttcaaaagga 120
 gaacaattag tgggtgctatg aacagctcta ttgtaagcaa attcaacatg gggtaaacia 180
 gcttcccaag tttttaagtt cttcctcaaa actgtcctaa gcaaagttcc caaagtccta 240
 ttaacaactt ccgtttgccc atcggtttgt gggtgacaag tgagtgaaaa taacaattta 300
 ntgcccaact tgctccacaa agacctccaa aaatggctta cgaacttaga gtccttatca 360
 ctaacaatgc tccttggcaa accatggagt ctcaaatct tcttgaaaaa caaatcagcc 420
 acatgggaa 429

<210> 19813
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19813

ccgtatagtt tatcaattca actcgagatt tgatataaac atccaaattt caatgtttcc 60
 ccaatgttga tacagaataa cagcgatact cattntaata tacagagagg gacatgctat 120
 gatacggcaa tgatataaga gaatatggca aattgcaact tataaattaa tttaaaatta 180

agtttaatca tcatgcactc acaagtttaa tggatcaatca atcataaatc tttattaata 240
 tataactttt aaggtataat ctattttctc tttaaaatta atttatttcc tttttaaaaa 300
 taaattagaa taaaagttca gattataaga gaattcatat tctagaaatg aacataagtc 360
 aatatataca taaaaatgtt aaaacttata taattagtat gagattctaa tttatatattg 420
 gatacaagtt aanaaagtat acgtagaaaa ttatgacaat aacataacag tttttata 478

<210> 19814
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 19814

agctttaatg tccctctggt ctttacacca ttgttttata gtgtatctca agttcctcaa 60
 cttattttta agggcaattc ccccccccc ccaaccaccc tacagatctg tattccaagc 120
 ctctttgatc atagagtggg accctttatg attaagccac cagtccacaa cccgaaaagg 180
 cttagggccc cagtccacca tccttgtctt caaaatgatt ggacaatgat cagaataatc 240
 tctttgaagg acatgttggg aagtatcagg ccacaaggat aaccactgat cagacaccaa 300
 gaatctgtcc agcctactct tggcactgcc attgagccta aaccaagtaa aatagctgcc 360
 aaagcatcta atatcatgga gtcctatctt tgatatccag tcattgaaat ctgaggtatc 420
 tga 423

<210> 19815
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 19815

ttcgagtgcc tgtatattga tgcgcctgaa tcggacatac gagtgacaag ttatgaccat 60
 ttgaatttct cgagagcttc ctatgtttta ttttgagcgt ctcgatatat tatacgctg 120
 aatcgaacct cagtgtgaaa agttatgacc atttgaattt ctgtagagca tccgttggtc 180
 attttcgagc gtctctatat gtgatgaacc ttaatcggac ctccgtgtga aaagttatga 240
 ccatttgaat ttctcgagag ctccgttgt tcaatttcga gcgtctcgac atattatgcg 300
 cccgaatcgg acatccgtgg gaaaagctat gaccatttga atttctcgag agcttccgtt 360

gttcaatttc gagcgtctcg acatatgatg cgcccgaatc g

401

<210> 19816
<211> 240
<212> DNA
<213> Glycine max

<400> 19816

agcttgaatc ggacctcagt gtaaaaagtt atgaccattg aaatttctgc agagcatccg 60
ttgttcattt tccagcgtct ctatatgtga tgcaccttaa tcggacctct gcgtgaatag 120
ttatgaccat gtgaatttct cgagagcttg cgttgtgcat ttacgagcgg cgctacctat 180
tacgcgtccg ataccgacat tcagggaaaa aggtatgacc ttatgaattg cacaagagct 240

<210> 19817
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19817

tcaagaattg atggcctcat cataactacta gttccctgaa cgcaattcaa ctaatctgcc 60
tcccattgtt aatggagtgg gttaccatta ttggaaaacc cgcattgcaa tcttcataga 120
ggctatagat ttaaaccattt gggaagccat agaaataagg ccttgtattc ccaccatggg 180
tgctggaaat acaacaatag agaagcctaa ggaagattgg agtgaggaag aaagaagact 240
agtacaatat aacttaaaat ccaaaaacat aattacatat gccctaggaa tgaatgaata 300
ctttagggta tcaaactata aaaatgcaaa gggatatgtg gataccctac aagtaacaca 360
tgaaggcaca acanattgta aaagattctag gataaacaca ttaactcgtg aatatgaact 420
atntangatg aatgcanatg anagtatgca agacatgcan aagaggttca cacacat 477

<210> 19818
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19818

taatatatcg agacgatcaa nattgaacaa cggaagctct cgtgatatta aaatgggtcat 60

aagttgtaac tcggatgtcc gattcaggag cttcacatat cgagatgcac gaaattgaac 120
aatggaagct ctagagaaat tctaattggc ataaattctc acacggaggt cctattcagg 180
cgcttaatat atccagacgc tcgaaattga acaatggaag ctctcgagat attcaaattg 240
tcataacttt ttaactcggat gtccgattca ggcgtatcac atatccagac gctcgttaatt 300
gatttcgcca agctcttagag aaattcgaat ggtcataact ttccacacga aggtcttaatt 360
caagcgctta atatatcgag acgctcgaaa ttgaacaacg gaagctctcg agaaacttaa 420
atggccataa gttttaactc ggatgtccga ttcaagcgaa tcataatatca a 471

<210> 19819
<211> 420
<212> DNA
<213> Glycine max

<400> 19819
agctttccaa tgtcttcaag catcaaata atacaatggg ctgcacaagg agtccaataa 60
atatgtttcc ttttgcctc taacaactta cccgctaaaa catagttact cctattatca 120
gttacaactt gaacaacggt ctcttctcca acttctcca caatagcatc aagcaactca 180
aaaagctttt cacctgtctt cacaaaatca gagccatcaa cagacttcaa aaacattgta 240
ccagcttgag agttaaccaa agaattaatg atgcattctt gtttccgac agtccatgct 300
tcgaacataa tagtacaacc atacttgacc cattgctcct tgtagtcttt catcagatct 360
ttagtgaggt caacttcctt cttcacgagt ggaactctga tatcatgaca gctcggaatg 420

<210> 19820
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19820

agcttgacca ggaattactt gtatgggttg gatgttgaat tctgggtggt cctgggtgcgg 60
agatgatggt acagcgggtg aaccagaagc ggaagtttct tttggtgagg tagccatgga 120
aaagcagagc gtttggaatg atttcgtaaa tttcagaagg ctattgggaa atgctggtaa 180
aaacacgaat gccaaacaga tataaatttg aatgaggaat gtatagggtc gtgtgaagca 240
acggtcgaat tttccttggt tcagttagtg acgtgctatt aatgttaagt gattcgtttg 300

ggcacgttca gattgctgta gttgctataa ttncctctagc acacaaatgc ccagcttgcc 360
 cctcagttnt tcaaactgat ttgcatccaa agcctttgtg aacatatctg ctatttgttc 420
 ctacag 425

<210> 19821
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19821

ggatgcatac aacctatatg ctccagggtg aggggggagag ttgagatatt atgtagatta 60
 cagagatata tattaagaga catgatacga gttcgattta gttatatcag atttgatttg 120
 tatttatgta gatgagatct tttctatagt gtaatttagga tcatatttct agtgccattg 180
 tatctttaga attacctcta ttcatgtatc ctttttacag tttaatcaat ccgaaatata 240
 cataacttctt caattatttc ctccagtctc aaatatacca tgttgagtgt tatcagcaac 300
 aaattttcag tataataaag tattactagc tatttccagt ccagttctat cagaatgtan 360
 aagaagggag ttaagttctt acaacagcaa caacaccatc atatgagtta agcttcacat 420
 ttgtcanaga agacatcaca tcaaatgcct ctctgtctct ctctgtcaca atcacctagt 480
 aat 483

<210> 19822
 <211> 358
 <212> DNA
 <213> Glycine max
 <400> 19822

atgatgttcg tggtgaacgc attacatgta gacataccac atgctttata ttatgtgcat 60
 acagagctac atacatcttg gaaacgatac atacggacat ttgtgggcca tatcatacgc 120
 cttcatggaa tgggtcaaca tattctatat cattcataaa cgattactcc agatgtgcat 180
 acttgattga tatacatgag aagtcacaat ctctggatgc gttcaaaaca ttgaaagtcg 240
 acgtggaaca tcaactcaac ctttgaatgc actgtgtcag atctaaccgt ggtggtgaat 300
 actatgtcag atatgactgt tcaggtgaac aacgtccaga gcctatcgtc acgtacct 358

<210> 19823
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19823

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agccttggag tttccaaagt ccaattcgtc tctttcttta gtccagctct cttctggctt 60
caatccatca gtgggctttc cttctgagtc cagcatcttg ggatgttccc agcctttgat 120
gacagctttc caggttctgc tatccagtga tttgaggaag gccaccatcc ttgctttcca 180
gtattcatag ttggttccat ccagaattgg tggctctgtc actggtcctc cttctttctc 240
catgttcata agaatttatc tccctaggtc tcaactcagtg atttcgagtg cccgctctga 300
taccaattga aattctgata ccaatgccag atgtcgtaca ggatgtcacg acatcacgct 360
tcagaacaag cagattatct ctgagtgtat gaacagatta tacaagtaaa taacacaaga 420
gaatt 425

```

<210> 19824
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19824

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ngagagagat ctcaagaacc ggaggttgct tagggactgg atgtatttac tggttgttgc 60
cgaaccagta taaaattctt gtgttgttct tcttcttcca tacactattt aatttccgtt 120
gtgtacttta cttttatgct atacttttgt ttaagttaca taacttagta gtaaagccta 180
attgaatcta gtaacattaa gaaggatcag ttttaattag tcaaggttac ttaataatta 240
attcaacccc cctatttctc attactccaa ggccacttga tccaacacat tgtaccctga 300
gcaactgcca gatagttctt cttccttttc ttttcttttc ttaagagctg aatgtaatcc 360
atgtaccctt atgggtcctc tctgatatta tgtatgtatt catcttctca cctttatcat 420
tagtaattnc atttca 436

```

<210> 19825
 <211> 423
 <212> DNA

<213> Glycine max

<400> 19825

agcttgaagg taaactagat gccttggtta acctggtaac ccaactggcc atgaataaaa 60
aatctgcacc tgtcaccaga ctctgtggtt tatgtctctc tgccgaccac cacacagacc 120
tttgcctcra tgggcaacaa tctgaagcaa ttgaatagcc tgaagcttat gctgcaacaa 180
tctacaatag acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc 240
tctccagcaa caggtacaat cccggglyga ggaatcatcc caaccttata tggtcgaatc 300
cttcacaaca gcaacaacaa caaccttatt ttcagaatgt tgctagccca agcagaccat 360
acgttctctc accaatccaa caacaacaac aacaacaaca acaacagcaa cagccctaga 420
aac 423

<210> 19826

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19826

ntgatgcaac atatggagag gttaatgaaa caacgagatg atgttctcca tgagaggctg 60
gatcacatgg agaatataga tcataatgaa gaagacagga gtagaagagg gaatgatggt 120
gttcctagac aaaactgaat tgatgatatt aaactcaaca ttcctccatt taaaggaaag 180
aatgatccag aggctactt ggagtgggag atgaatatag agcatgtttt ctcatgcaac 240
aactatgagg aggaacaaaa ggtgaagctt gccgtcacgg agttttccga ctatgttctt 300
gtgtggtgga acaagctaca taaggagaga gcaagatatg aagagccaat gtgtgatata 360
tggatggaga tgaaaaagat catgatgaag cggatatgtc cggctagtta ctcaagggac 420
ttgaaattca a 431

<210> 19827

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19827

agctttatat gattggctaa gattttgtta aaacataagc acttatacaa tgaaggaaag 60
 ctggagttgc tgcacaagat gtccaacggt atgtcaaaga ataagatcgg gctgcacaat 120
 gcacaaggca agataaagtg tcaaatgaag aattgaagct gcaagattca cgatgtcggg 180
 tacaatgtcc aggacatcct gcccgaaaat actggaattg ctaaaagcat tgatattgct 240
 cgatccacga tctcggatac aatgtccagg acatcctgcc cgaaaatact agagttccta 300
 aaagcattga agttgcagga tccacaatgt cngatacgat gtccaggaca tcttgcccg 360
 caatactgga catataaatc tgttatatct ttaacagatt attgtgcagt tagcaagaga 420
 ttag 424

<210> 19828
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 19828
 gcttggttatg aagatgataa aacctatctc ttactagatg tcagctagtt gtgagtctgt 60
 atccataaac tcaatgtcac aatcaccttt gtgaatatga tccctaataa aatgatgctt 120
 aatatttata cgctctgtcc tagaatgcat gatacgattc ttagtgatac taatgacact 180
 agtggttatca catcttaaag gaatatgtcc taaatgcaat ataaagtcag aaagttattg 240
 attaagacac aagatttgtg cacaacaact tcacacaaca atgtactcag ccttatctgt 300
 aaacaaggca acacatgctc gattcttact attccatgaa accaggccat tacctaacaa 360
 gcggcaaata ctactagtgc ttctcctatc tagtgtaaatt ctggaaaagt ttgaatctga 420
 gtattc 426

<210> 19829
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 19829
 agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
 atcatgtggg ccttttgaaa gtaacaaaca gaaggccagt ctgttgcaag tttgctgctg 120
 aacatcacat tccaccctaa gaaaacacaa ggtggattgc atcgagggtg gataccttac 180

cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaactgc tttcaggaaa 240
aaagttgtaa aaattgatac aggttggaaa agggaatttt ctttcccggc ttggagtcct 300
cccaatttaa ggcagaaccc atccactcca atttctgcag tttaaaactt tctctactta 360
tttagttgtc tcctctgagt tcaacc 386

<210> 19830
<211> 387
<212> DNA
<213> Glycine max

<400> 19830

agcttgcttc ttgatgaaat ggctataaat gcattaagga tctatatagt attacaacaa 60
caaccaca ctgtcgatgc gtactttgga agataggtta catctcggca ttcataaagt 120
ctgtcgatct ttatttggaa agatttgctc cctctccgac ttgggtaatg aaagcatggg 180
aaacaactca agatgaaacg atgactgctg gtgtgttggga tgctgtggat ttcaacacat 240
tcgggtgtgtt caacttgctc aatcattcta aaaccgaaac ctcttgaacc tttatgtctt 300
atattgtggc atgctatggt gaaatgggta tactataagt ttaatctgaa atcacaagat 360
gcaacctact tgtgaagtat cctaatac 387

<210> 19831
<211> 365
<212> DNA
<213> Glycine max

<400> 19831

agcttagtct ggctggatat gaaattctgg gttgaaaatt cttttcttta agaatgttga 60
attttggccc ccaactctctt ctggtttgta aggtttctgc agagagatcc actgttagtc 120
tgatggggtt ccttttgtgg gtaacccaac ctttctatct ggctgcgctt aatatttttt 180
ccttcatttc aaccttggtg aatctgatga ttatgtgtct tggggttgct cttctcaagg 240
agtatctttg tggcattctc tgtatttcct gaatttgaat gttggcctgt gttgctaggt 300
tggggaattt ctcttgata atatcctgaa gagtggtttc cagcttgatt ccattctccc 360
tgtca 365

<210> 19832

<211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19832

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agctttgctg gctttacctt atctcccttt ggtccataag gtcccagaag gcttngyaa 60
cccccttctc ctttcaatcc cgaataaacc gtagagccag tgaatccttg aggacctgll 120
gggccttgaa ttccaattgg tccaggctgt ccctaagggtg gacagaagga gtgcaattag 180
tcaatagagg acttagcatt aatacttctc attttcccac gcacaaagag cactgtcata 240
acttcactga ataatttttg ctaagagatc tgtgaggcac gccaaagttc cagacacgga 300
tcagaaaagg ctatttttagg gattgctaag cttatttgga tagaacacat tttataagca 360
catttaataa gattcatgtg caccaagatc cttcaacttt 400
```

<210> 19833
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19833

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agcttgatga aattcaggat agcacagaaa caattcagaa tactgtcaga caaatttaca 60
aagagattta attaatTTTT aacaattatg cagacatttt ttaaatgaaa aacttagttg 120
acatactgca gaatgcatca gagtctctta ctggcagaat tgatcaagca gaagaatcag 180
tgaacttata aacaggctat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
tattggcctt aaaattattg gccttattgg cctgatgagg tagagagaga gagacgngg 360
tagaaagttt attcagagga atagtaacaa ag 392
```

<210> 19834
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19834

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agcttttggg tctcgctgag tttttggcta ttcacttttc tttcttgtga tgcccctgtg 60
```

caggtaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgtcag tttatttcat 120
agacttagtt attgagccct cagaggatag agggaaagtc ttccctctca tatagaaggg 180
aaaaggtagc tccgagagtg ggagaatata tttataatac atttctctaa gagtacttat 240
atrcataatt tataaacaaa ttttgaaaat taaaagagag cagtagaata agcaaaacag 300
rrgaacaatt atctgtttgc ataccataga aatgcaata tataaagaaa tatatatatc 360
tgcaatttat atgaacagaa tca 383

<210> 19835
<211> 386
<212> DNA
<213> Glycine max

<400> 19835

agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
atcatgtggg ccttttgaaa gtaacaaaca gaaggccagt ctgttgcaag ttgctgctg 120
aacatcacat tccaccctaa gaaaacacaa ggtggattgc atcgagggtg gataccttac 180
cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaactgc tttcaggaaa 240
aaagttgtaa aaattgatac aggttggaag aggggaatttt ccttcccggc ttggagtcct 300
cccaatttaa ggcagaacct atccactcca atttctgcag tttaaaactt tctctactta 360
tttagttgtc tctctgagt tcaacc 386

<210> 19836
<211> 365
<212> DNA
<213> Glycine max

<400> 19836

agcttagtct ggctggatat gaaattctgg gttgaaaatt cttttcttta agaatgttga 60
attttgccc cactctctt ctggtttgta aggtttctgc agagagatcc actgttagtc 120
tgatggggtt ccttttggg gtaacccaac ctttctatct ggctgcgctt aatatttttt 180
ccttcatttc aaccttgggt aatctgatga ttatgtgtct tgggggttgc cttctcaagg 240
agtatctttg tggcattctc tgtatttcct gaatttgaat gttggcctgt gttgctaggt 300
tggggaattt ctctggata atatcctgaa gagtgttttc cagcttgatt ccattctccc 360

tgtca

365

<210> 19837
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19837

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gctgccccctc ctcatatcacc gcggagggtga gccaacagct ctgatgtata cattccttta 120
tgactatgca aaaggtagaa aggatttggg gcacaaatat tcttgccttg gactggatng 180
gatctcttta tttccttgag tggctcgata ttattagaa ggagattgct atctaactcg 240
accaattttc tatacctttt gatttttagg gcgtgtgatt ggatagacgg gctgctcttc 300
ttgctggcta ttcttggcgc atgctccata atgcaacgat tcacacgcct tccaagcgaa 360
ctatatggcc tgctaatacc aatgctctct atgcagtagg ctat 404

<210> 19838
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19838

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cccccttctc ctttcaatcc cgataaacca gtagagccag tgaatccttg aggacctgtt 120
gggccttgaa ttccaattgg tccaggctgt ccctaagggtg gacagaagga gtgcaattag 180
tcaatagagg acttagcatt aatacttctc attttccac gcacaaagag cactgtcata 240
acttcactga ataatttttg ctaagagatc tgtgaggcac gccaaagtgc cagacacgga 300
tcagaaaagg ctattttagg gattgctaag cttatttgga tagaacacat ttataagca 360
catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19839
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19839

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aagagattta attaatTTTT aacaattatg cagacatttt ttaaataaaa aacttagttg 120
acatactgca gaatgcacga gaggctctta ctggcagaat tgatcaagca gaagaatcag 180
tgaaattata aacaggctat ctgaaaatac acagaggaga caaaaggaag aaagaatcaa 240
aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
tattggcctt aaaattattg gccttattgg cctgatgagg tagagagaga gagacggngg 360
tagaaagttt attcagagga atagtaacaa ag 392

<210> 19840
<211> 447
<212> DNA
<213> Glycine max

<400> 19840
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gaattctcca ttccagtgtc tgcattgtgat gaggatttat cctccctag atattaagtt 120
aacaatccca atggagaaga tgtgcgtaaa tgaatcaaaa acttggtatc caaatttcac 180
gaagatccaa tgggttaaaaa gtctcagatt gtagttttac taaaacagat ttgggtatat 240
gcggaaaaaa ggaaagctac gacacggagg gaatttctct cagctccgac attgtttctc 300
atattgcaac gatgggaatc tttggaaatg agttccagac ttgggtgtca catttcacga 360
cgatctaacg gttaacgagt ttatgatcgt cattttctga gacagagttc agtgtatgag 420
cgaaaaagat agggctcttg gagagga 447

<210> 19841
<211> 383
<212> DNA
<213> Glycine max

<400> 19841
agcttttggg tctcgctgag tttttggcta ttcacttttc tttcttgtga tgcccctgtg 60
caggtaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgtcag tttatttcat 120
agacttagtt attgagccct cagaggatag agggaaagtc ttccctctca tatagaaggg 180

aaaaggtagc tccgagagtg ggagaatata tttataatac atttctctaa gagtacttat 240
atccataatt tataaacaaa ttttgaaaat taaaagagag cagtagaata agcaaacag 300
ttgaacaatt atatgtttgc atacctatga aatgcaaata tataaagaaa tatatatatc 360
tgcaatttat atgaacagaa tca 383

<210> 19842
<211> 384
<212> DNA
<213> Glycine max

<400> 19842

tctgactcat gacctcagct atcttaagaa ggggtgaatt aatttccac taaccacctt 60
ttgaccccct tctaaatgat acgctccaaa tgtagaagta taagcaacaa tcaattcaat 120
aatgttcttt atacatgcca gacaaaatcg actgccataa tataaatgag attagggag 180
agagaaatgc taactcactt tatactatctt aggacacttc ccgtgcctac gtgcaattcc 240
tcagcaaccc acttgaaatt ttccactctc tttgcaagaa tacttttaca cagtctgaac 300
cacataggga caacccatcc attgtgtcca ggaatactta ccacttaaga gaccctccat 360
cccttaatca atctctttga ataa 384

<210> 19843
<211> 386
<212> DNA
<213> Glycine max

<400> 19843

agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
atcatgtggg ctttttgaaa gtaacaaaca gaaggccagt ctgttgcaag tttgctgctg 120
aacatcacat tccaccctaa gaaaacacaa ggtggattgc atcgagggtg gataccttac 180
cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaactgc tttcaggaaa 240
aaagttgtaa aaattgatac aggttggaag aggggaatctt ccttcccggc ttggagtcct 300
cccaatttaa ggcagaaccc atccactcca atttctgcag tttaaaactt tctctactta 360
tttagttgtc tcctctgagt tcaacc 386

<210> 19844
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 19844

agcttgaatt tgaacaacag aggccttga gatattctaa tgggcataac ttatcacacy 60
 gaagtccgat tcatgcgcac aatataatga gaccctcgaa attgcactac ggaagctctc 120
 acgaaacata aatggcgata acttttcaca cggatgtgca ttcaagtga taatatatag 180
 agaagcttga cagtgaacaa tggaagctct ctagaaatat caatggacat aacttatcag 240
 acggaagacg cattctggcg cacattatat cgagacgcta gcaattgcac aaag 294

<210> 19845
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 19845

agcttagtct ggctggatat gaaattctgg gttgaaaatt cttttcttta agaatgttga 60
 attttggccc ccactctctt ctggtttgta aggtttctgc agagagatcc actgttagtc 120
 tgatggggtt ccttttgtgg gtaacccaac ctttctatct ggctgcgctt aatatttttt 180
 ccttcatttc aaccttgggtg aatctgatga ttatgtgtct tggggttgct cttctcaagg 240
 agtatctttg tggcattctc tgtatttctt gaatttgaat gttggcctgt gttgctaggt 300
 tggggaattt ctctggata atatcctgaa gagtgttttc cagcttgatt ccattctccc 360
 tgtca 365

<210> 19846
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 19846

atcttaagtc actgggctgc agcttaacca ggggagatgg accatttcaa gttcttgact 60
 gaatcaatga ccatgcttac acagttgagc tgcccggaga gtataatgtc atctccacct 120
 tccatgtctc tgatctatct ctattctatg caaatggaca atcctatttg aagatcaact 180
 cttctaaaga gggagagaat gatgatgaca tgaccaatag caatggacaa gatccacttg 240

aaagacttgg aggacctatt gatgaggaca tgaccaagat ctatggcaat gatccacttg 300
 tacgacttgg acgacctatt acatcgtcta tagcaaggaa agccaatgaa gctcttcaac 360
 acatgcatga cataact 376

<210> 19847

<211> 449

<212> DNA

<213> Glycine max

<400> 19847

gctgtaagac attatgcaac attgttttgg atattcaaca tgaacatccc atttcttgac 60
 gttggtacct tcgcgattag attgcttctc ctatctctga tggaaagact ggaatctttc 120
 attgaatatc atagccttta ttgagtaatt gacccaaact cataatatta ttcttcatat 180
 ttgggacata gtagacatth gatatgaatt catgtcttcc atctttcaaa taaattaaga 240
 tcttacatta tccttttaca agaactcttag aattatcacc aaatgagaca ttgtcactta 300
 ctgattcatc aagatccacg aacatgcttc ttttctacac atatgggttg ttgcaccagt 360
 gtcaacgtat catgtgttgt cttggctacc ttcattacat gcacatgcta gaagcactat 420
 ttcaaacttc ttggcttttt gctccacat 449

<210> 19848

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19848

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 cccctttctc ctttcaatcc cgataaacca gtagagccag tgaatccttg aggacctgtt 120
 gggccttgaa ttccaattgg tccaggctgt ccctaagggtg gacagaagga gtgcaattag 180
 tcaatagagg acttagcatt aatacttctc attttccac gcacaaagag cactgtcata 240
 acttcactga ataatttttg ctaagagatc tgtgaggcac gccaaagtgc cagacacgga 300
 tcagaaaagg ctatttttag gattgctaag cttattttgga tagaacacat ttataagca 360
 catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19849
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19849

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 aagagattta attaatTTTT aacaattatg cagacatttt ttaaattgaaa aacttagttg 120
 acatactgca gaatgcatca gagtctctta ctggcagaat tgatcaagca gaagaatcag 180
 tgaacttata aacaggctat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
 aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
 tattggcctt aaaattattg gccttattgg cctgatgagg tagagagaga gagacggngg 360
 tagaaagttt attcagagga atagtaacaa ag 392

<210> 19850
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 19850
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 cacatacctg tccaaagcac cacaatgttg tctttgggta aactcttgaa atttgaaaat 120
 aaatatttta taacaaatgc taacttgtgc tctaagaaca ttagttgagg aatttaaagt 180
 agaaattatt ttactagaa aacgaaaaat tatgttccca ttatcttatt acgcttttat 240
 gatttaggca ataaatattt ttctctttta attctttaat caatgtctta agtacattac 300
 ttatcaatac ctatattcta tttatgctct agacagtatt cattgtattc gacaaatact 360
 ttttttaatt ttaaataaaa tgtgtgggga tgtagttt 399

<210> 19851
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 19851
 agcttcaacc aattaacatt gtttgaatga caactgttgt agttggacaa caatcacata 60

gtttgtccac catggtatgc tttatgttcc tattgggtat agctctggta tgctttatgt 120
 tcctattggt tatagctttg gtgctagaat gttcaatttg gaggccacaa gaggaggatc 180
 tccatatggt gctggagttt ttgctggaga tggtaacaaga caagcaagtg aaatggagct 240
 ggagcttcta gaggatcatg gcaaglatat atgaaattag cccataaaaag ctgattgaa 300
 ttctgcgatt ataaattcat taagccctcc tagccaggtc agcattctag tctgtcccaa 360
 gttggtgacc tctaaatcaa acttcttaat gcactcaaac aaaccattgg tgacctcaca 420
 atcaaaacttc aagtcagtgt tgtcataaaa 450

<210> 19852
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 19852

agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctqtaattgt 60
 atcatgtggg ccttttgaaa gtaacaaaca gaaggccagt ctgttgcaag tttgctgctg 120
 aacatcacat tccaccctaa gaaaacacaa ggtggattgc atcgagggtg gataccttac 180
 cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaactgc tttcaggaaa 240
 aaagttgtaa aaattgatac aggttggaaa agggaatttt ccttcccggc ttggagtcct 300
 cccaatttaa ggcagaacct atccactcca atttctgcag tttaaaactt tctctactta 360
 tttagttgtc tcctctgagt tcaacc 386

<210> 19853
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 19853

agcttagtct ggctggatat gaaattctgg gttgaaaatt cttttcttta agaattgtga 60
 attttgccc cactctctt ctggtttgta aggtttctgc agagagatcc actgttagtc 120
 tgatggggtt ccctttgtgg gtaacccaac ctttctatct ggctgcgctt aatatttttt 180
 cttcatttc aaccttggtg aatctgatga ttatgtgtct tggggttgct cttctcaagg 240
 agtatctttg tggcattctc tgtatttcct gaatttgaat gttggcctgt gttgctaggt 300

tggggaattt ctcttgata atatcctgaa gagtggtttc cagcttgatt ccattctccc 360
tgtca 365

<210> 19854
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19854

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cccccttctc ctttcaatcc cgataaacca gtagagccag tgaatccttg aggacctgtt 120
gggccttgaa ttccaattgg tccaggctgt ccctaagggtg gacagaagga gtgcaattag 180
tcaatagagg acttagcatt aatacttctc attttccac gcacaaagag cactgtcata 240
acttcactga ataattttgg ctaagagatc tgtgaggcac gccaaagttc cagacacgga 300
tcagaaaagg ctattttagg gattgctaag cttatttgga tagaacacat tttataagca 360
catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19855
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19855

agcttgatga aattcaggat agcacagaaa caattcagaa tactgtcaga caaatttaca 60
aagagattta attaatTTTT aacaattatg cagacatttt ttaaatgaaa aacttagttg 120
acatactgca gaatgcatca gagtctctta ctggcagaat tgatcaagca gaagaatcag 180
tgaacttata aacaggctat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
tattggcctt aaaattattg gccttattgg cctgatgagg tagagagaga gagacggngg 360
tagaaagttt attcagagga atagtaacaa ag 392

<210> 19856
<211> 438

<212> DNA
<213> Glycine max

<400> 19856

agcttggttac cttattgaca tttaaattaa tactagctag taaaggggtga aattaatcat 60
ttcttcacaa gagtgtgcaa agatgttcga atcacctgtg gtggaccacc gacatcattt 120
gtccaataga ccctgacatc atcaaccaat ttqcaaaatc ttqaaaatgc atlaucdaat 180
cttttgtgag atttcaactg tgaattcacc cttactgcc cactgtcat aatagctctc 240
ctcgtaaaat tccaatggca agatgttaac ctgtcatata tatatatata aaaccaattc 300
ccaaactagc aacacggatg attccacaaa gcatttatac ctaatgcctc taacaacagc 360
aagatagcca tcacaaacca caccaactag ctcaattctg taggctttcg cgtgcgcgat 420
ctcattacaa ttttctct 438

<210> 19857
<211> 464
<212> DNA
<213> Glycine max

<400> 19857

agcttcccaa gtatttaagt tcttctcaa aactatccta agcaaagttc ccaatgtcct 60
attaacaact tccatttgcc catcggttg tgggtgacaa gtagttgaaa ataacaatct 120
actgccaac ttgcccaca aagtcctcca aaaatggctt aggaacttag agtccctatc 180
actaacaatg ctcttggca aaccatggag tctcacaatc tcttgaaaa acaaatcagc 240
cacatgggaa gcatcatcaa cttttttaca tgggaataaaa tgagccattt tagataacct 300
atcaacaacc acaaaaatgg aatctctacc actgcttggt tttggcagcc ccaaaacaaa 360
atacatggat aaatcaatcc aaggatactc cggaattggc aatggagtat acaatgcag 420
acgctgtacc ttagactctg cccttttaca tacaatgcaa tggt 464

<210> 19858
<211> 383
<212> DNA
<213> Glycine max

<400> 19858

agcttttggg tctcgctgag ttttggcta ttcacttttc tttcttgtga tgccctgtg 60

caggttaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgtcag tttatttcat 120
agacttagtt attgagccct cagaggatag agggaaagtc ttccctctca tatagaaggg 180
aaaaggtagc tccgagagtg ggagaatata tttataatac atttctctaa gagtacttat 240
atccataatt tataaacaaa ttttgaaaat taaaagagag cagtagaata agcaaaacag 300
ttggccatt ctatgttgc atacctatca atgtcaata tctacccaa tctatctct 360
tgcaatttat atgaacagaa tca 383

<210> 19859
<211> 386
<212> DNA
<213> Glycine max

<400> 19859

agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
atcatgtggg ccttttgaaa gtaacaaaca gaaggccagt ctgttgcaag tttgctgctg 120
aacatcacat tccaccctaa gaaaacacaa ggtggattgc atcgagggtg gataccttac 180
cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaactgc tttcaggaaa 240
aaagttgtaa aaattgatac aggttggaag aggggaatttt ccttcccggc ttggagtcct 300
cccaatttaa ggcagaacct atccactcca atttctgcag tttaaaactt tctctactta 360
tttagttgtc tctctgagt tcaacc 386

<210> 19860
<211> 274
<212> DNA
<213> Glycine max

<400> 19860

agctcataat atatcgatac gctcgaaatt aaacatcgaa tactctctgg aaattcaaat 60
ggtcttaact ttctacacgg atgtccgact gcagctaata acatatcgat tcgctcacia 120
ctgaacaacg gaagctcttg agaaattcaa acggtcctat ctttacgcac ggatgttaga 180
ttaaggcgca tcatatataa cgacgctcga atttgaacaa cggtagctct cgagaaactc 240
agattgacat cacttttcac actgatgtcc aatt 274

<210> 19861
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 19861

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agcttagtct ggctggatat gaaattcttg gttgaaaatt cttttcttta agaattgtga 60
atttggcttc cccctctctt ctggtttcta aggtttctgc agagagatcc actgttaatc 120
tgatggggtt ccccttgttg gtaacccaac ctttctatct ggctgcgctt aatatttttt 180
ctttcatttc aaccttgggt aatctgatga ttatgtgtct tggggttgct cttctcaagg 240
agtatctttg tggcattctc tgtatttctt gaatttgaat gttggcctgt gttgctaggt 300
tggggaattt ctctggata atatctgaa gagtgttttc cagcttgatt ccattctccc 360
tgtca 365
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<210> 19862
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19862

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agctttgctg gtcttacctt atctcctttt ggtccataag gtcccagaag gcctgngaaa 60
cccccttctc ctttcaatcc cgataaacca gtagagccag tgaatccttg aggacctgtt 120
gggccttgaa ttccaattgg tccaggtcgt cctaagggtg gacagaagga gtgcaattag 180
tcaatagagg acttagcatt aatacttctc attttccac gcacaaagag cactgtcata 240
acttcactga ataatttttg ctaagagatc tgtgaggcac gccaaagttc cagacacgga 300
tcagaaaagg ctattttagg gattgctaag cttatttgga tagaacacat tttataagca 360
catttaataa gattcatgtg caccaagatc cttcaacttt 400
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<210> 19863
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19863

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agcttgatga aattcaggat agcacagaaa caattcagaa tactgtcaga caaatttaca 60
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aagagattta attaatTTTT aacaattatg cagacatttt ttaaattgaaa aacttagttg 120
acatactgca gaatgcatca gagtctctta ctggcagaat tgatcaagca gaagaatcag 180
tgaacttata aacaggctat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagc 300
tattggccctt aagatattt atttattg ctgatgggg tagagagga gaggagagc 360
tagaaagttt attcagagga atagtaacaa ag 392

<210> 19864
<211> 383
<212> DNA
<213> Glycine max

<400> 19864
agcttttggg tctcgctgag tttttggcta ttcacttttc tttcttgtga tgccctgtg 60
caggtaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgtcag tttatttcat 120
agacttagtt attgagccct cagaggatag agggaaagtc ttccctctca tatagaaggg 180
aaaaggtagc tccgagagtg ggagaatata tttataatac atttctctaa gactacttat 240
atccataatt tataaacaaa ttttgaaaat taaaagagag cagtagaata agcaaaacag 300
ttgaacaatt atatgtttgc atacctatga aatgcaaata tataaagaaa tatatatatc 360
tgcaatttat atgaacagaa tca 383

<210> 19865
<211> 386
<212> DNA
<213> Glycine max

<400> 19865
agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
atcatgtggg ctttttgaaa gtaacaaaca gaaggccagt ctgttgcaag tttgctgctg 120
aacatcacat tccaccctaa gaaaacacaa ggtggattgc atcgagggtg gataccttac 180
cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaactgc tttcaggaaa 240
aaagtgttaa aaattgatac aggttggaag agggaaatctt ccttcccggc ttggagtctt 300
cccaatttaa ggcagaacct atccactcca atttctgcag tttaaaactt tctctactta 360

tttagttgtc tcctctgagt tcaacc 386

<210> 19866
<211> 314
<212> DNA
<213> Glycine max

<400> 19866

agcttcgatt tgctgcgac cgcgaggaac atgcatcaac cgcaccgac agtggcaaaa 60
cagcacaatc gtgaagcata agaggagaca acagagagaa ggacagagag tcaccgacct 120
aggattgcat cttcgtcctc ctgcgccgtg gtgacagcaa cctcctcgag cttgacgatg 180
ggagcgacgt gtgctccggt gttctctgcg acgacgacgg cgggtgcctc cttctcttat 240
cggagctcgg gatcggcgct cgacatcttg tggaaggaga gatggacaca gagagataga 300
gagagagatc ccgt 314

<210> 19867
<211> 365
<212> DNA
<213> Glycine max

<400> 19867

agcttagtct ggctggatat gaaattctgg gttgaaaatt cttttcttta agaattgtga 60
attttgcccc ccaactctct ctggtttgta aggtttctgc agagagatcc actgttagtc 120
tgatggggtt ccctttgtgg gtaacccaac ctttctatct ggctgcgctt aatatttttt 180
ccttcatttc aaccttggtg aatctgatga ttatgtgtct tggggttgct cttctcaagg 240
agtatctttg tggcattctc tgtatttctt gaatttgaat gttggcctgt gttgctaggt 300
tggggaattt ctctggata atatcctgaa gagtgttttc cagcttgatt ccattctccc 360
tgtca 365

<210> 19868
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19868

agctttgctg gtcttacctt atctcctttt ggtccataag gtcccagaag gcctgngaaa 60
 cccctttctc ctttcaatcc cgataaacca gtagagccag tgaatccttg aggacctgtt 120
 gggccttgaa ttccaattgg tccaggtcgt ccctaagggtg gacagaagga gtgcaattag 180
 tcaatagagg acttagcatt taatacttctc attttccac gcacaaagag cactgtcata 240
 acttcactga ataatttttg cttaagagatc tgggaagcac gccaaagttc cagacaccca 300
 tcagaaaagg ctatttttagg gattgctaag ctttatttga tagaacacat tttataagca 360
 catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19869
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19869

agcttgatga aattcaggat agcacagaaa caattcagaa tactgtcaga caaatttaca 60
 aagagattta attaatTTTT aacaattatg cagacatttt ttaaataaaa aacttagttg 120
 acatactgca gaatgcacga gagtctctta ctggcagaat tgatcaagca gaagaatcag 180
 tgaacttata aacaggctat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
 aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
 tattggcctt aaaattattg gccttattgg cctgatgagg tagagagaga gagacgngg 360
 tagaaagttt attcagagga atagtaacaa ag 392

<210> 19870
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 19870

agcttttggg tctcgctgag tttttggcta ttcacttttc tttcttgtga tgccctgtg 60
 caggtaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgctcag tttatttcat 120
 agacttagtt attgagccct cagaggatag agggaaagtc ttccctctca tatagaaggg 180
 aaaaggtagc tccgagagtg ggagaatata tttataatac atttctctaa gagtacttat 240
 atccataatt tataaacaaa ttttgaaaat taaaagagag cagtagaata agcaaaacag 300

ttgaacaatt atatgtttgc atacctatga aatgcaaata tataaagaaa tatatatatc 360
 tgcaatttat atgaacagaa tca 383

<210> 19871
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19871

tgcttgacat tatagcagna acctggaatt ttgtgggtta tagctcaact tcaaaggcct 60
 acagaatcta cctaccacag agcaacanag taatcgtcag cagggatgtc aaatttctgg 120
 agtcagatag ttgggactgg aaaaatgata agaggtctga gtttcaggag gagaatgaag 180
 atgttgatga agaaccatc agaggaacca gatcactttc agacatctac canaggtgta 240
 atgttgctgt aatggagcct ganggatatg aagaagctac agctgatcag aaatggagaa 300
 atgcaatgaa agaggagctt ataatgatng aaaaaataa aacatgggag ctggtggaca 360

<210> 19872
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19872

agcttgatcat gttctgtgca ggtgttgcta ctggtggagg cacttgaatt tggttgccag 60
 acctcaaggt gatggcactc acattttttg ggttctgcac agtttgtgaa agcaatttgt 120
 cataattttg ggactgagct tggttcaact gagtagccat ctgccccatc ttatttgta 180
 gactctgaat ggaggctctt gtctcttgct gaaattgcat attctggatg gtcatttgcc 240
 tcactaactc ttctaaagaa ggttgaggag gagccttagt tgcttggtgt ctntgttatg 300
 actgctgctg ttgtattgga ggaggaacat at 332

<210> 19873
 <211> 322
 <212> DNA
 <213> Glycine max

<400> 19873

agctttctggt ttcaatttca agcgtctcga tattttacgg ggctctatcc gacatccgag 60
 ttaaaagtaa tggtcggttg ataattctaa gagcttccct tttcaattac gaaaatctcg 120
 atatattacg ggacacaatc ggacacccga gtaaaaagta attggcggtt gaattttctca 180
 gagcttctat ttccaattac gagcgctcgg atatattacg ggactcaatc ggacattcga 240
 gtaaaaagtt attgtcggtt gaaatttctc aaagcttctg ttttcaatta cgagccgtct 300
 gatataattac gggactcaat cg 322

<210> 19874
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19874

agctttatta tttattcttt ctccctatta atatattctg tgttggtaaa tccacacatt 60
 taattaagtt actaagttag tcaattaatt aagctcagct taacatctag cagtatatat 120
 aaacatgcac ggaaaggaag gatagtttaa atatatatat atattcttgt ggtatttcag 180
 taacctacat aaattatcga ctctgttgtg taattaataa actctacgtc accagtatgt 240
 agaatatata taaaagatat aaacaatgag caaacagcac cagtggctca gtggtagaat 300
 agtaccctgc cacggtacag acccggttc gattcccggc tgggtcatat tgtttctaac 360
 tttttatcta tgcagtctca tca 383

<210> 19875
 <211> 209
 <212> DNA
 <213> Glycine max

<400> 19875

tatagaaact cagctcatgc tacaacatt tataatagat ctctcaaca gccaaaccct 60
 ttttcttcat aattattatg aaccttccaa ccattggatc cattccaggt tggaggaatc 120
 atccaaatct gagatggacg agtccctcac aacaacaaca gcctgtcctt cctttctaga 180
 atgctgctgg tccaagcaag ccatatggt 209

<210> 19876
 <211> 301

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19876

catcagacca cttccagggt gctggaacta cttcacttgg ttttatgggg cctatgcaag 60
ttgaaagcct tggaggaaaag aggratgcct argttgttgt ggaatgatcc tccagattta 120
cctgngtcaa ctntatcaga gagaattcag acacctttga agtattcaaa gaggtagatc 180
taagacttca aagagaaaaa gactgtgtta tcaagagaat cangagtgcac catggcagag 240
agtttgaaac agcaagttta ctgaattctg cacatctgaa ggcacactc atgagttctc 300
t 301

<210> 19877
<211> 309
<212> DNA
<213> Glycine max
<400> 19877

agcttcattc tttatgagac gaaccattcc aagtgttggg gaagatcaac gacaatgcct 60
acaagattga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120
ctctctttga tgcagatgga ggagccttgg atttgaggac aaatcctttt caacgagggg 180
gtgatgatga cataaccaat ggcaaggacc atgaagcact tgaaggctcc atgaccagag 240
gcagacttaa acaagcccaa cacatcatag agacaaagct ggtcatttgt atagctgtca 300
ttgatgatg 309

<210> 19878
<211> 264
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19878

tccgttaaaa catccaaagg aggccttccat tgggaaatga caatgccaca cgaggattgc 60
gcaacttcac tccctaagaa gtattttgagt ggacccatgt cttttgtctg anactgacta 120
tggagacgag atctaagtca gagaataccc tcagaatcat tgtcaataat gacaatgtca 180
taaacataga caacaagcta catgcaacga ctagatggag aatggatgaa aaacaccgag 240

tgattagtct cacaatgggt catg

264

<210> 19879

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19879

cgaatcggac atccgtgtga gaagttatga ccatttggat ttctttatat ctttcggtgg 60
ncaaatncca accctggtga gttttattcc acccgattcg gacatctgtg tgaaaagtca 120
tgatcatttg aatntctcga gagtttccga tgtttaattt cgagcgtatc gatataattat 180
aaccctgaaa tcgacctcag tctgaaagtt atgaccattt gaatttgacg agagctttcg 240
ttgttcaatt tccaatatca ctgtatgtga tgcgcctcaa tggacattcg agttanattgt 300
tatgaccatt tgaatttctc aagagcttcc gttgttcaat tctgagcgtc 350

<210> 19880

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19880

agctngcttc ttttggtgca tagaatgcag gcaaaaaaaaa aatagtaagt gtcattgaatc 60
tctgacataa gcttcaacca attaacattg tttgtatgac aactgttgta gttggacagc 120
aatcacacag tttgtccacc atgggtatgct ntatgttctt attggttata gtttttagtat 180
gctttatggt cctattgggt atagctttgg tgctggaatg ttcaatttgg agtccacaaa 240
aggaggaact ccatatgggt ttggagttct tgctggagat ggtacaagac aagcaagtga 300
aatggagctg gagcttgcag agtatcatgg caagtatata tgaaat 346

<210> 19881

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19881

agcttgcttc ctttcccact ggaatnncct ctatcaaagc cactctgatt actttttcct 60
cctctgggag cataattcta aggggaagcca ttcttcctaa aacatctatc aactgtatga 120
ttgtctttgc cacagtaagt acatgaaaat cctgaattcg atgaggttgt gcttgctgca 180
ttgatcaagc tactgtttcc tatcatatca ttgtatttaa tctatctttc ttgttgaatt 240
acataagaga agactctagt tatgccaggt aaggatcca tcatcaatc attgagctcg 300
acagtgttgt actgatcatt taatccccta aggaattgca taactcgatc ttgcttcttt 360
ctttccataa cactaacaag agcatcacat gtacatttta gattgcatgt a 411

<210> 19882
<211> 353
<212> DNA
<213> Glycine max

<400> 19882

agcttgctta tattactaga agactatgag atgtttccta atagtgcaat agatgatgat 60
ggtaaatggg ttcatctagc actaatggga gaagcagaac ctgtcacttt cccagaagca 120
attaaaaagg aagtatgggt agaagctatg agagaagagt tgaaagccat atagaggaac 180
aagacatgga agttggctag tctaccaaact ggaaaaacag ctataaatgt cacatggggt 240
ttcaagaaca agctcacacc agataggagt attgctaaac acaaagccag actagtggcg 300
aagggtctga tgcagaaaga aagctatgat tacaagaag tctttgcact ggt 353

<210> 19883
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19883

ataagtatat tcactaggag aacatcgtag tggaaggaaa ttgtactgat gtgattcaaa 60
agatccttcc acccaagcat aaagacctg gaagtgtaac tattccttgt ttaattggag 120
aagtcaccgt gggaaaggct cttattaact taggagccaa aattaattta atgccactct 180
ccatgtgcag aaaggtggga gagttggaga tcatgccac tangatgact ntacaacttg 240
ctaaccactc cattaccaga ccatatggag taattgaaga tgtgttggtc agagtgaaac 300
attttatctt cctggcagac tttgtggtaa tggata 336

<210> 19884
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19884

agcttttttag attgacacat atcttnaaac tattgggaaa agacacaatg ggcctatata 60
 tatgttttgc gacttcaaaa agcaacagag agatttcaaa agacaactta attgtcaaat 120
 gctctctaaa aaactatagg tcaaacactt tcaaatcaat tgagtattct tgtaagatct 180
 tcaatttgta ttatcatctc taaaagagag aaattcttct gtacattcta aatactgtgt 240
 tgtgatcaag agattgttta tctctagact tgtgagaatc ctgaacacaa tggagacgaa 300
 tctcaagggtg tgttcagaag ttgcaaagag tgtacaaaga tagcggaaaa tctcaagtgc 360
 gttgcttgat gacaggacat agacacgaga agtggtcgat caagataaaa 410

<210> 19885
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19885

taagaggtgc aaattaaata ccatttgata ctgagacaat gtgacaagan atgtaataaa 60
 taagacccaa gtgtatacga taaaattgtg acagactcca catactacac atgtaaaaca 120
 ttaacaagcc atcctgattc ctaaacacat gatatgcac ttcatittca aagccacgga 180
 ctgaggtcca tcatctacac caagcttctc aaggtcctca taaaaagcat cgggattttt 240
 cttccacaac tcttcacact tatttatttg ctgttcaactt atttggcgag cccttaactg 300
 cttcttaagg tataagactt gtatattctc tatgtgataa cctaaaaggc actttcttga 360
 agcatcatat gatatgcaa aatcatcaca ttctaataag cattantgta agttaaatac 420
 tatttcttga agtttcaatt actttt 446

<210> 19886
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19886

agctttgaat ttctttgttc cggaaacctt tcttttctca tgtgcacca aaccaatct 60
ccgggtcga acacaacctt ctttctccct ttgatggctt gtttagcata gcttttactt 120
ttcctctcga ttgatctctt gacctatata tgaagctctt tcacatagtc cgcctttgct 180
tgaccttctt tatgcttaan aacagaaaca ttatgcatat gcaaaagatc aagaggagtt 240
agtggattaa aaccataaac aacttcaagg tttaagaaag aagaatcatc ggatgacgcc 300
gatcgaacat ttcctaatag acatcatcca aatattattc 340

<210> 19887
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19887

actcggatga ttgattgagt cccgtaatat aacgagacgc tcgaaatnga atgtngaagc 60
tctgagccaa ttcaaacgac aataactttt tactcggatg tctgattgag ttccgtcata 120
tatcgagacg ctcgaaattg aatggtgaac ctctgagcca attcanacga cnataactnt 180
ttactcggat gtctgagtga gtcccataat atatcgagac gctcgaaatt gaatgttgaa 240
cctttgagcc aattcaaacg acaataactt ttactcgga tgcctattc agtgacgtaa 300
tatatcggga 310

<210> 19888
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19888

agcttttatc attctacttt ntcttacttc ttacaaataa aaaaatatct ttcttatttt 60
gaagttcgaa aagttagtat aaattattac cgttaaaagt aatcaaatta aatatatatt 120
aatacagttt atccaaaatt taataagatg tttaacaatta tttcatcan accattgtct 180
catatattct attttttataa tatagtgagt ataattttat ttgcaaaana attaaattca 240

agtatttttaa agaattttaa aataaatata tatatatata tatatatata ttantttta 300
 tacatatatg tatagatatn aaatatttta ataaagtgc taaattataa tatacatata 360
 tt 362

<210> 19889
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19889

gcttgtgtca cgattcactg tgacagtcaa agcgccattt tcttagttta tcaccaaag 60
 taccatgaga ggacagagca catagatgcg aaactacact tcatcagaga tgtgattgaa 120
 tctgagaagg tgaagggtcga taagggtttca acagaagata acccggtga tatgtttaca 180
 aaatccctct ctagtgtcaa gttcaagcac tgcttgact tgataaattt tgaggatgcc 240
 taaagcacat tggtagaagt gcatccctga atcgcaagat aagcacttgt tgatttggag 300
 tcaaagtgga gatttgtggt gtgtgactca naatcacaaa tggcacaagt gggaagactt 360
 taagaagtgc tatcataact aaattcagtt atgataactg aatctgtttt ggcaccanaa 420
 catagctaga atgagtgtgt gtgatata tatatatata tat 463

<210> 19890
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19890

actatannaa actcacgctc tgagacaatt canacgacaa caactntnta ctcgatatt 60
 tgattgattc ccgttatata acgagacgct cgagagtga tgtttaagct ntgatccaat 120
 tcanatgaca ataaattttt tctcagatgt ctgattgagt ccaataatat aacgagacgc 180
 tcgaaattga atgttgaagc tctaagccaa ttcaaacgac aataactttt tactaggatg 240
 tctgattgcg tcccgtaaca tatcgagacg ctcgaaattg aatggtgaag ctctgagaca 300
 attgaaacga caacaacttt ttactcggat ctctgattga agtccgtaac atatcaagat 360
 gctcgaaatn gaatgtggaa tctctgagcc aattcacacg acaaatacgt ttactcggg 420

tgtctgattg agtcgcgtac atatcgagac gctcgaaatt gaaggtagag ctct 474

<210> 19891
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19891

tgtaatcgat tacacacata ctgtaatcga ttaccagaag atatttttct tataatatc 60
tcaacagtca catctttgta cttgattctt gaatggctgt caaaggccta tatatgtgtg 120
acttngnaca caaatttgct aagagatttt cagaacaaaa aggtcttctc ctcttaaaaa 180
gcaaaatcng tttatcctct tacaattcc ttggctaaaa cacttgatgat tcaataagga 240
attanttgag tgctcacatt gttcaatcta tctctttcaa gagagatnnc ttcttttctt 300
cttcttcatt ctgaaaaggg atta 324

<210> 19892
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19892

gcttatgaga gagtcaagat caattgagag gaaaattatt ctatgctaaa caagccaaca 60
aaggagagaga gaagggtgtc ttcgaacccg gagattgngt ttgggtgcac atgagaaaag 120
aaaggtnctc ggaacanagg aatcaaagc ttcaaccaag gggagatgga ccatttcaag 180
tgcttgaaag aatcaatgac aatgcttaca aagttgagct gcccgtgag tataatgtta 240
gttccacctt caatgtctct gatatatctc tttttgatg 279

<210> 19893
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19893

acgacaataa ctgtctactc ggatgtgtaa ttgagtcccg taatatatcg agacgctcga 60
nattgaatgt tgaacctatg agccaatnca aacgacaata actttttact cggatgtctg 120

attgagtdcc ataatatatc gagacgctcg aaattgaatg ttgaacctct gatccaattc 180
 caacgacaat cactttttac tccgatgtcc gattcagtgg tgtaatatat cgggacgctc 240
 gacattgaat gttgaacttc tgagccaatt caaacgacaa taacttttta ctctgatgta 300
 tgatcgaatc ccgaaatata tcgagacgct cgaaatgaa tgttgaacct ctgacccatt 360
 tcaacgacaa taactttttac tcgatgtccg attatagacg aattatc 407

<210> 19894
 <211> 362
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19894

agctttgttt gtatntaaac gacaataact ttntactcgg atgtctgatt gagtcccgta 60
 atatatcgag accgtcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120
 gttttactcg gatgtctgat tgagtcccggt catataccga gaagctcgaa attgaatgtt 180
 gaagctccga gccaatctaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
 taatatatcg agaccctcga aattgaatgt tgaagctctg agccaattca aacgataata 300
 aacttttact cggatgtctg atagagtccc gtcatatatc gagacgctcg aaatcgaatg 360
 tt 362

<210> 19895
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19895

agcttgtggtt gttcttacga atgatgacat ggtcaattga actctcagaa tatgatattg 60
 cctacaagct gagaggtagt atccgagccc aagtactagc caacttcatt aatgaattcc 120
 atccccacc accatatttc aagtaggaat ggtggacgat gcatgtgtaa aactcttcca 180
 ataggcacgg gagtgggtgtt ggggttattc tcgaaggacc atgggtacaat ccttacattn 240
 tggattcaaa gccacatgca attaggccga atacgaagaa ctctttgcag gtttaaggct 300
 ttccaaacag gttgatgctc aaagggtccg gtgtcgaagc gactccaaga tcgccgttga 360

gtatatcaac

370

<210> 19896

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19896

agcttctgtt gtgnacatnt tgacttgctn tccaatctga cagtcaccac agattctgcc 60
ttcttctatt ttcagattgc ggatgccttt aacagcacct ttgtcaatga ttttcttcat 120
gcctcttaag tgcagatgtc caaatctttg atgccatatt ctgacttcat cttctttgga 180
ggatagacat gtggaggagt agctggtttc ttgggggtgc cataagtaac aattgtcctt 240
tgatctgctg cccttcatta gaacttcaact cttctcattt gtcaccaagc attctgactt 300
tgtgaagttt acattgaacc cttcatcaca cagctgactg atgctgatcc aagttgcagt 360
cagtccttcc accagcagta ctttgttcag actangaagt ccatcatgaa ct 412

<210> 19897

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19897

agctttattc ttttacaaaa atgaagctaa actntaaaca agaatgaagc ttcgatacca 60
cttgtagac aagtggcctc agatatctta agaagggggg ttgaattaag atattacaaa 120
ctattttccc aattaaaatt ctactttgat tntaatgcaa gttcaaagtt cccttaaaga 180
ttaatttcta aatgatgatt caaaataacc aaactgaatg taaaagtaaa gcaacaataa 240
ataaaagagt ttaaggaag agagagtgc aactcagttt tatactgggtt cggccacacc 300
cttgtgccta cgtccagtc ccaagcaacc cacttgagag ttccactaac ttgcanaaac 360
cctttacaag ttctgaacca cac 383

<210> 19898

<211> 439

<212> DNA

<213> Glycine max

<400> 19898

agcttctaata ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaaggggggg ttgaattaag atattccaaa cttttctcct aattaaaaat 120
ctatcttact tctactttaa gttatgaatt ccttaaatga caatcttctt aaataaaad 180
tcacatgaag caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240
agagaaaatg caaactcact tttatactgg ttctgccaca cccttgtgcc tacgtccagt 300
ccccaagcaa cccgcttgag agttccacta acttgtaaatt tccttttaca agttctaaac 360
acacaacgac gaacccttct ttgtgttttag agattctgta caacaagaga ctcacagtct 420
cttaatccct tatagaatg 439

<210> 19899

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19899

agctntatatt gttatcttct cctgccacca ttcaaaaatt gtaaattgat ccttttccac 60
ggagcacaat agaattgatga ttttgctgaa ttaaagtgtg tgacaaacat ttacaaatga 120
aattaagact ttattgtaaa atatataatt aaatcaattt cgttggttttg tttttttcat 180
cttcactaat atgctggaat tgtgattata tattacatct tcggttgtga aanaagtaaa 240
gaatagaatt actattacat tatataaggc gactaaatat aacatgtaca atagaaatac 300
aatttttgtt gtacaatga caacagaatt atatttttat tgtgcatcgt ttattagcaa 360
agaaatatat aaatctttca ctaaataaaa ttgagattat ctgttatata atagaatctt 420
ga 422

<210> 19900

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19900

agcttcttgg ttaatatctt ttaccacttc aacatgtcat tcgaagtcaa aacctaaggg 60

tggacttgg gaagattang ggtggcaatg taagccttgg ccggacgagt tgggctagat 120
 gactcaaccc gctagcccat attgactcac cccgcctaac ccaccaacct agcgggacag 180
 gttggctagc cagccatcca tacatacata tacatatata taaaaatagg tgttttgtct 240
 tacttgtcac tttgtatctt ttaagtattt agtgctattc aaaaatcaca atatatatgt 300
 gctatcatct ttatattatt ttataaattt aattccttta atacaaatag acaaatttat 360
 attaaaatta aatctaggat aaacaattaa tatattntat gttctctaga taaatctgtt 420
 catttgggat aactttatag aataagatga 450

<210> 19901
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 19901

agtctttcgt tgttcaattt cgagcgtctc gatatattat gcgcctgaat cggacatccg 60
 agtgaatagt caagaccatt tgaatttctg gagaacttgc atcgttgaat ttcgagcgtg 120
 tcgataaatt atgcgcctga atcggacctc catgttaaca gttattgacc attggaattt 180
 ctcgagagct tccgttgtgc aatgtcgagc gtctcgatgt attgtgcgcc tgaatcggac 240
 ctccgagtga aaagttatga ccatttgaga tcctcaagaa gttacgttgt tgaatatcga 300
 gcgtctcgat atattgtgcg cctgaatcgg acctccgagt gaatagttat gaccattaga 360
 atttc 365

<210> 19902
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 19902

catatatacc tcctcctcta cataaccatt aaaaagaact gtttcacatt catttgttgc 60
 aactcaaggt caaaataagc aactaatgcc aagatatata aagagaatct ttcatagata 120
 caggagaaaa agtcttttgtg tagtcgattc cttcttttgtg agtaaatccc tatgcaacga 180
 gtcttgccctg gtatctctca atgttggcta atgaatccct tttggtctta aaaacccatt 240
 tacagccaag ggcccttggcc cta 263

<210> 19903
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19903

agcttcaaca atggttagat ggaccatntc aagtgcttga aagaatcaat gacaatgctt 60
acaaagttga gctgcccggg gagtataatg ttagttccac cttcaatgtc tttgatttac 120
ctctttntga tgcagatgta gaatccgatt tgaggacaaa tccttctcaa gagggagaga 180
atgatgagga catgaccaag agcaagggca aggatccact tgaaggactt ggaggaccta 240
tgacaagggc tagagcaagg aaagccaagg aagctcttca acaagtgtg tccatactat 300
tngaatacaa gcccaagttt caaggagaat agtccaaggt tgtgagttgt atcatggccc 360
anatggagga tgactatatg acaccactct tgtctcaatt tt 402

<210> 19904
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19904

agcttgaagt gngtatccca caatcttttc atagtagaat accggtaatg tgtctactat 60
cattgtcatc attttttttc ggtcattgag gtgccacttg agctgccagg tctctccacc 120
tttgggtgta ttctttgaaa gatctgtgcc cctttttgca catgttctgt tgttgcaccc 180
tatccagaac catatcaaaa ttgtactgat actgcctaac gaaggcaacc attaggtcct 240
tccaagaatg gactcgggaa ggttccaagt tagtgtacca ggtaacagct accccagtaa 300
gactttcttt ggaaggaatg tatcaacaat ttctcatctt ttgcgtat 348

<210> 19905
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19905

tgtttgtatt gttatcacta tcaaattctc caatatagat tgtgaaccta tctttgtttt 60
 tccaatatga aaaatcatca acccagaatg agtcaacatt attntgttct ctaatgccag 120
 gtctcataag ataacaatac aaacaacatg tagcatcttt tgatatatta tattccaacc 180
 aattgctaaa tttcaaaaac caatcacgat taaactttca aattagagtc ttaaattgtt 240
 gtatttgaaa atcatgctct cttggtctgac aagcttcttt ttgctaataa actcttcgga 300
 tgttatccca attattagga tgataacatg atattntgtt cctctctcct agaatagcat 360
 gagaatattc cagatcaact tctaagactc tttgtttcac atatgactat aat 413

<210> 19906
 <211> 340
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19906

agcttctgnt. tttcaanttt. gagcgtgtag atgacttatg tgcgcatatc gaacattcgt 60
 gggaaaactt atgaccattc gaatatctcg agagctaccg ttgttcaatt tcgagcgtct 120
 cgatatatta tgacccccaa tcggacatct atgtgaaaac gtatgaccat tcgaatatct 180
 cgagagcgtt cgctgttcaa tttcgagcgt ctagatgagt tatgtcctcg aatcgaacat 240
 tcgagtgaat acttatgacc attcgatttt ctcgagagct tccgttggtc aatttcaagc 300
 gtctcgatat attattgttc ccgaatcgga cactctcgaa 340

<210> 19907
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19907

agcttcagct gtcttatttc gagcctctag atatattatg tccatgaatc agacatctgt 60
 gtgaaaagtt atgaccattc gaatttctcg agagcttccg ttgttcaatt tcgagcatct 120
 cgatatatta tgtcccagaa tcggacatcc gagtgaaata tatgaccatt cgaatntctc 180
 gagagcttcc gttgttcaat ttcgagcatc tcgatatatt atgtcccaga atcggacatt 240
 cgagtgaat ttatgaccat tcgaatttct cgagagcttc cattgttcaa tttcgagcgt 300

ctagatgagt tatgtctccg aattggatat ctgCGtgaaa agttatgacc attCGaattt 360
ctcGagcGct ctctttgntc aatatcgagt gtctcgatat attatg 406

<210> 19908
<211> 290
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19908

tctgtctcaa cggtatctac accagctngg atagtatgat ataatatctt cacagaggcg 60
tcaaccgctt ccaactcatt caatacagga aatttaccac cagaacatct aactctaatt 120
atctcatata caagatgctg cgaccttcta aaatctggag cccatgaatg tatgtcggcc 180
acattcaagt ctgataaett ctttgacgag ccagagaatg ctgctgtaaa caccctgcaa 240
ataaatacag tctacacctt aactccatac atagcttgca tcaaaacctt 290

<210> 19909
<211> 400
<212> DNA
<213> Glycine max

<400> 19909
ggcagcaagc tttttatctt ggccatgctg gattgttagg agagatttct tggcatttgt 60
gctcataaac gcaatatcca ccaactccttc attggtctgc caggtattgt gattacagca 120
ggggagaata atcacattct cctctgacga cactttctga tactcatcac tctttctgtt 180
tgttatgtca gagggaatgt cgacgatgaa ttccctgact agactttcat atcaatctcc 240
caacttggtg acagtattca acagtccagc aaccttgatg aggacatgat ctcccttgca 300
tccacagcat ctcttaccag agctctgtgt aatgcaagtc tcgCGtgata tacaaaatta 360
cacctttcaa catctgcaat ggagtggaat gaaatgttgt 400

<210> 19910
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19910

agcttccaag atttattatc aagattcatt caagaatcca gagaagacct aattcagaat 60
tagttttaaa aagttttttt caaaacctga gtaccacatg aaatttttctc aaaacccttt 120
accaaagagt ttttactctc tggtaatcga ttaccagatt attgtaatcg attaccagta 180
gcaaaaataat tntcaaaaag ctttcaactg aatntacaat gttccaattg atttcaaaat 240
tttctaactg attacaatgt tttggtaatc gattaccagt gtggttgaaac gttgaaatc 300
aaattcaaat gtgaagagtc acatcctctc acaaaaaagc tntgtgtaat cgattacact 360
aatttggtaa tcgataccag tgatagtttc tgaacaaatc anaaaatgta actcttcann 420
atagttttta ctttttttta aatgg 445

<210> 19911
<211> 375
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19911

agctntacat ctaattcaat ggccgacctga atcccgaggg tgcattgcttc gtactcggcc 60
atattgttgg tacaatcaaa acctatccta gccgtgaaag gaatacaatg atcatccggt 120
gatacaagga ctgcccctac tccgtggccc aaagcattaa acgccccatc gaagcacaca 180
atccatttgt gtatgtcctc gtgcgtctgc ttgtcttcaa acagggccat gatattctca 240
tatgggaact cggggtgcat cggccgataa tccgggagga gttgctgggc caaataatcc 300
gctaatgcac ttgcctttac cggcttttgg gtgacgtaca cgatatcgaa ttcagataat 360
agtacctgcc accta 375

<210> 19912
<211> 369
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19912

agcttctttg attgtctaag tgtggacct ctanggcaag ggggcattct ccactatttt 60
cggagcccca tgaatgtcat tgcctagcgc tgttcatgtg tcttccacct tcgagtctgg 120
agccccgcga atgtgattgc ctatctctat acgccaatc tccattctcc actttttatt 180

ggagcccat gaatgtcatc gccaaagcgt gttcattcat cctccacca aagagtatgg 240
agctaagctt cttgattgcc taagtgtgga cctctatgg caatcctcca ttctccactt 300
tgttcggagc cccatgaatg tcattgcta tcaactgttca tgtgtcctcc accttcgagt 360
ctggagccc 369

<210> 19913
<211> 386
<212> DNA
<213> Glycine max

<400> 19913

agcttcttat tttcatatga tgcagatggg tttgtagcta cctcatgcac tcctctaattg 60
actatggcat catttctggc gctaaactgc tgggagtcgg aggccatctt ctcaattaaa 120
tttctggctt cagcaagagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tattactgag tccttcataa aaatgttgga caagaagctg ttctgaaatc 240
tgatggtgat ggcaactggc acatagcttc ttaaactgat ccagtactc atacaggctc 300
tctccactga gttgtctaatt acctgacata tcaactcctga tggctgaggc cctggaagca 360
aggaacaaat gttctaagaa tactct 386

<210> 19914
<211> 441
<212> DNA
<213> Glycine max

<400> 19914

agcttgagtt gtcttatgct ctttttaagg ctctgctcga cttacataaa agtctgactt 60
acgagcctat ttaaaagctt gcttaaagac gtcttttatt aattaattat tttaaacct 120
agtgaataac taactaaaaa aagaaactta ttaaatttcg tatgaataat gtacaaatct 180
aaaaataatt gataaacaaa attatattga attcaagtcg ttaaagcaca aagtctataa 240
aaaaaataaa aatagcataa tattaaaaaa tgtatggatt agagatgatt tacactaata 300
tagcctaaca aaaattatta ttagttaaata taacaatttc taatccacat tttttaatat 360
ataattatat tatatatgtt taaaaaaaaat atatgcacaa taatgtcatc ttagtctact 420
caagccatat cttatataat a 441

<210> 19915
 <211> 243
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19915

agcttcaaca tttcttaccg agcgtttcga tatattccgg gacitgaatca gagctctcga 60
 taanaagtta tcgtcgttat aatttgctca gagcttcggt attgcatttc gagcgtctcg 120
 atatattacg ggactcaatc agacatccga gtaaaaagtt tttgtcgtta gaacttgctc 180
 agagcttcca taatcaatat ccagccgttc catatattac tggactcaat cctacaaccg 240
 tgt 243

<210> 19916
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19916

agccttcctt ctttttacca attacccttc acccaattta aatccatctt ggcctttttt 60
 ccacaactct aataaatggg agagaaatgt tcatctagac catacaagtc cctaataatta 120
 tcagatccta caatttgagc tcctatggag caaaacaatg tgtgtctcct agagagggca 180
 tcagctacca catttgtttt tccctttttg tatttgataa catatggaaa ttgctctatg 240
 tactctaccc attntgcatg cctcttgttt aacttgcttt gccctctaatt gtacttaagt 300
 gattgatgat cactatgaat gacaaattcc ttggaaacaa ggtaatgttc ccaagtttgg 360
 agggctctta ttaaggcata aagctc 386

<210> 19917
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19917

agctttgaat gctctattca atggagttga caagaatatc ttcagactga tcaacacttg 60
 cacagtggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120

gaagatgtcc agattgcaac tattggctac aaaattcgaa aatctgaaga tgaaggagga 180
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
gggagagagg atgacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300
gtttgacatg atagtcactg caatagagga ggcccaagac atctgcaaca tgagagtaga 360
cgaactcctt cgttcctcct anacttllga gctcngactc tgggataggg tgaagagaa 420
gagcaagaat ctggcggttcg tg 442

<210> 19918
<211> 416
<212> DNA
<213> Glycine max

<400> 19918

tgcattgccag cctctattgc ttttattcat tcttacctgg ggctatctca aaccttgtat 60
ttttgttgtc tatgatattg catacacctc cttcagagtg aagtgtgtag cctctctcca 120
tcatttggcc aatgcttaga agattgtctt ttaggctggg aactagtaag acatcatgga 180
tgagtcgcgt acctttattt gtctccacca tgatagtgcc tttgcctttt gattcaacca 240
cacttgtatt tcccagttga actatgactt tgacagactc atcaatactt ttaaaaatag 300
tcttatacctt ggccatgtga ttgctacatc cactatccaa gtaccagttt cctccctttt 360
cttttatcga gtcttgagtg gcgtagaacg tacattgttc ttgatcatgc tcctct 416

<210> 19919
<211> 410
<212> DNA
<213> Glycine max

<400> 19919

agcttcatat ttgatttatg tgcaaccata tcccttaaag tcctctcacg aggtggaggt 60
tgtgccatgt tctcagaatg tgcattgatc gaatgctcag aatcagaatg ctcaatgaaa 120
ttctgatacc aatgccagat gtcgtacagg atgtcacgac atcacgcttc agaacatgca 180
gattatctct gagtgtatga acagattaaa catgtctata acacacgata attgctaacc 240
cagttcgggtg caacctcacc tacatctggg ggctaccaag ccagggagga aatccactaa 300
aatagtgtta gttcaaggtc taacagccac tatttacaac cttctcacct aaccactacc 360

cggtgcgacct ctacctatga gccactctta tatatgagaa cccctctcac 410

<210> 19920
<211> 359
<212> DNA
<213> Glycine max

<400> 19920

agcttatctg ttttgtcctt cctcagtgtc ctgaatcgat catacaacaa cttatcaggc 60
agaattctca cgagcaccca acttcagagc tttgaagaac ttagctacac tggaaatcct 120
gagctttgtg gtcctcctgt aacaaaaaat tgcacagaca aggaagagtt gacagagagt 180
gcttctgttg gacacggtga tggtaatttc tttggaacat cagagtttga tatcggtatg 240
ggagttggat ttgcagcagg attttggggg ttttgtagtg ttgttttctt caacagaact 300
tggaggcgtg cttattttca ttatcttgac cacttgagag atctgattta tgtgataat 359

<210> 19921
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19921

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cagttataac aagcactggt gcaggccctt tcttcacggc taatgtacta acaagtgtta 120
aagttctact gtcgccatta acaggtgatt ttatcattaa tctacatctt attcgttcat 180
acacattgaa atgacttatt ttagttaggt aactaccatc ttagctaact tcgtccccag 240
agaaaagaaa gtgttatcta ttagtatgtc tatgtatgtg ttagaaatga aagctatatt 300
actaaatggt atataagtgt atcaacatta agtatattat ntcaataact tctattcaat 360
tcatgaattt gtgaacttcg gtactatctc ttatgccaaag ttcccncaat atattgtacc 420
tctatgcttc taagtgcac 440

<210> 19922
<211> 343
<212> DNA
<213> Glycine max

<400> 19922

agcttggtta tttcacccat atgcttctta ttggcttggt ggaccaaata ccatactaca 60
ttccttttaa actcatttaa ttcattatgc atagccaata accaatgctc atcatgcaat 120
gcttcatcta tctttctagg ttcaatatga gaaacaaaag ccatgttatt gcatacaatt 180
ctaagtttaq agtgggtgga tactccctta gatatctcac ctatgatgtt tccacacaa 240
aggtctctat gagttctcca ctcccttggg agttctttat gatgtgtggc aatgacttac 300
ttgctttgtt caagatcctt aaccattggt tcattctcaa gtg 343

<210> 19923

<211> 379

<212> DNA

<213> Glycine max

<400> 19923

ggagaaccaa gccaatcaga atgctagacg atttatagat gtgaatatag gtaacaatgg 60
cggtaatgac ggaccgaggc agaaccgggt tgagggagta aagctcaatg ttctccctt 120
caaaggtaga agtgatccag atgcctacct ggactgggaa atgaagactg agcacatatt 180
ttcttgcaat gactacactg atgcgcagaa agtcaagcta gcagcagctg aattctccga 240
ctatgccctt gtttgggtggc ataaatacca aagagaaatg ttgagagagg aacggcgaga 300
ggtagatata tggactgaga tgaaaagggt gatgagaaaa aggtatgtgc ccactatcta 360
taacagaacc atgcgacag 379

<210> 19924

<211> 236

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19924

gcgcaaacac tgaagagacc ggcgggtagc aaactttcat caanaaaaa atcatgacct 60
ttcgagcatg atatacaatc catgttggag gaatcatctc aatctgagat agacatagtn 120
ctccactaca acatcagcct gtccctactt tccaaaatgc tactgggtcca agcaagccat 180
atgttccttc tcaaagtcaa caactacatg tgcattcaca acaaagacaa ctagca 236

<210> 19925
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 19925

atagaaactc agctttgctg caatatattac aatagacctc ctcactctca gctgtataac 60
 caaccacacg acacacagttt caacccttcc agc aacgaa acagcctctg acggatcagc 120
 caccctaacc tcagatgggc cagccctcag caacaacaac agcagcctgc tccttccttc 180
 caaaatgctg ctggccaag cagaccatac attcctccac caatccaaca acagcaacaa 240
 cccagatac agccaacagt tgaggccctt ccacaacctt ccctcgaaga acttgtgagg 300
 caaatgacta tgcagaacat gcagtttcag caagagacca gagcctccat tcagagctta 360
 accaatcaga tgggacaatt agctacccaa ttgaatcaac aatagtccca gaattctgac 420
 aag 423

<210> 19926
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19926

tactcagctt cgctcttgaa cgggcgctat cctatcctat ttctannnct tttttttgta 60
 anangnctaa gggcgctgtt gcggccttgt cctgtttttt gtccttgctc tatcaaatcc 120
 ccttatctag attctcctct aaattctgag cgttttgata tatagtgggc ctcaaatgga 180
 caaccataac aaaagttatg agcatttgaa gtttacttgc cctatctatt gacatatctg 240
 ttatcctatc taatatctta tctgttatcc tatctaatac cttatttgat ttccgatcta 300
 ttatcttata tattatccta tctaatactt tatttgatat catatctggg acccaaatta 360
 gagctatctg ctatccagat ccaatctaata atattattat ccaaatac 407

<210> 19927
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19927

caccatcaca tgggggtaga ttggtgactc tttactgtct tttcctcctt ttttgagagc 60
ctcaaacatt tctgcaccaa cgtcctccaa gaagaatttc ggcagaacgg accttccaac 120
tctgaagctc gaagctttga tcccaaagaa gcatgccatg accattatct tcaagcccat 180
ctcttttccc agcacacaaa caaaggggta tagaagaacc aaaactatgg ctcttataag 240
ctctctctgc ctacgggcca cggccatgaa atatgggaac aaagctgagg ctcttataaa 300
cgcgttttcg acatcaaaga tcaacgtgtg atcgttgagg tctgatcggt ggattagaga 360
ggggaatttc anggtattgt taaactgtgt tgttgacccc gaaaaagaat ggctaattgt 420
tctgtgg 427

<210> 19928
<211> 419
<212> DNA
<213> Glycine max

<400> 19928

taatgaccct caatctttca atgattatag atccatctcc cttattggtg tgtctataaa 60
atcgtggcta aagttctggc caagaggctg gcccttgtgt tacctcatct tatagatgaa 120
agacaaacgg attttatgaa ggggaggcac attcttcatg gtgttttgat tgccaatgag 180
gttatagctg aggctaaggc tagaaataaa ccttgcatgg tcttcaaaga ggattttgaa 240
aaggcgtatg attcggtttc ttgtggtttt cttgactaca tgttgatgag gatgggcttt 300
tgtgaaagat ggaggaaatg gattaatggt ttctgtcca ctgcaaccat atccatttta 360
attaatggaa gtctgttttt ggagatgcca ctcaacataa tgttagaacc ttaaaatgt 419

<210> 19929
<211> 331
<212> DNA
<213> Glycine max

<400> 19929

ttctgttata aaggttgatg aaagaggatt gatgtgggtc tacactgggtg acatatggag 60
attccataaa gatggttgcc ttgagatcat tgatcggaag aaggacatag ttcaactcac 120
acatggagaa tatgtgtcct tgggaacagt atcaatgtcg gcttgtggaa cgcacttcct 180
ttaatattta ataataatat tatttaatac aggttgaggc cgctgtttct tgcttcctct 240

tgtagacaat atcattgtgc atgctgatcc ttttcatagc tactgtgtgg cactccttgt 300
atcttctcat tctgcttcgg agcattgtgc t 331

<210> 19930
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19930

ntatgatgtt caacagagac tatgttgaca taattgaaga ttgttcttgt tgctcctaatt 60
gcctgatcgt tatgaattgt aatctcacat tagagtcttc tatctttgta gtataattat 120
gactcatctt tttgacgcac aaattaaatn taaatatgta tctgacatag ttgccattaa 180
tcgtatttta agtaagttat ctatctttgt acgtttcttt aatgtagtgg cacgatgacc 240
aagttatcta tctttaatta gtgttactta gtttataatt aattattact taacgcacat 300
aggccaaatc taattctata tattaatttt aggtcaagat caatcttatt ttaagtaact 360
taactatctt tctatgtgtc taatgtgga 389

<210> 19931
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19931

cttataattn tcatatgata ataaacttct acaaaaatgt acctagatcc ataattattcc 60
acaatgcaaa gaatttaaga ataaaacttc cttaaattctt taataaagat tctcacacac 120
acattatata cacatacaca tagagtatga ttattatgtg aatgacaatc ttatatgaga 180
atgagaatag ttaatttcaa tcattggatt gaaatgaaag atttagatta aaaatatttt 240
aaattcaaat tanaacctca tgtaatcata aaatctctaa gaaattaatc aaatatctaa 300
tttatcacgt ccaaatatat cttanaccta tcatcaccat tatgatcatc agtccaccac 360
catcgccatg accgttgtat gtcaccacca acatgattgc gacagtggca gcaacaacga 420
ttatagtcac tgtg 434

<210> 19932
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19932

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nntaaaact' gcactctacc ctctgatccc ctatttactt attgctttct ctaattatgc 60
ttacagaagg accggctact ttcaaccctt cttgaacaat aagggtttaa atgtgagcac 120
aacattggat atgaaaaaat tcaccaccac ttactaaacc attagcatgc aaaaaaagtc 180
tttccttcaa atagtcttgc attttatcat tggaagaagc attatctaga gttaatgaaa 240
atactttctg ctcaatcccc cattcttcca aaaaaccata tataacttta gccttctcac 300
gccccgagtg tggaggagga aaatgagaaa aattaagcat ttactattc aacttccaat 360
ttgcatcaac ataatgtgca gttaatgaaa tataaccctc agaagtacaa gatgtccaca 420
catc 424

```

<210> 19933
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19933

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tctacaacaa gctagaaata taaaacgtta tcttttctca tctttaacac ttccccctca 60
agctggagca tataaattgt gtgctccaag tttggaacat ataaagtgga tctgaggacc 120
tctcaaggac ttggtcanga tgtctgcaag ctgggtgttg gacttaataa attcagtact 180
gatttctttg gactgcagct tttccagaac aaaatggcaa tcaatctcta taggtttagt 240
tctctcatga aatacagaat tagaagcgat gtgaagagct gcctgattat cacaatacaa 300
cttcatctgc tgaatatcac aaaattttta ttcttgaagt tgtttaatcc acaccaattc 360
acaagtaaca agagccatag ctctatattc tgcttctaca cttgatcagg caacaacaca 420
c 421

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<210> 19934
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19934

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 ttctccatgt ggggaataga tgtcatcggg gccattgagc ccaaggcctc gaatggatcat 120
 cccctcatcc tcgtacgaat agattatttc accaagtggg tcgaagcggc ttcataatcc 180
 aatgtcacga ggaatgtggg ggtcagggtc attaagaaag agatcatctg ccgatatggg 240
 ttgccaagaa agattatcac ggacaacggc accaacctga ataacaagat gatgggggaa 300
 atgtgcgagg agtttaaaat ccagcatcac aattccacac cctaccggcc aaagatgaat 360
 ggagccgtgg aagcagccaa taagaatatc aaaaagatta tccaaaagat gactgtgtca 420
 tacaaggatt ggcacgagat gctc 444

<210> 19935
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 19935
 tataatatat tgatacgctc gaaattaaac gtcggaaact cttgagaaat tcaaattggc 60
 ataacttttc acacggatgt ccgattcggg cgcataatat gtcgagaggc tcgaaattga 120
 acaacggaag ctcttgagaa attcaaatgg tcataacttt tcacacggat gtccgattca 180
 ggagcatcac atatagagac gtcgaaatt caaatgggtca taacttttca cactgatgtt 240
 cgatacaagc ttataatata ttgatacgct cgagattaaa cattggaaac tctctagaaa 300
 ttcaaattggc cataactttt cacactgatg tccgatttaa gcgcataata tgtcagagg 360
 ctcgagattg aataacagaa gctcttgaga aattcaacat ggcatt 405

<210> 19936
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19936

gtcactatat gtgacgcccc acaatcggac atncgactta aatgttatga ccacttgaat 60
 ttctcaagag cttccgttgt tcaattctga gcgtcttcgt atgtgatttg tctgaatcgg 120

acatgcgtgt gaaaaagtat gaccatttgt atttctcaag agcttccgat tgacaatttc 180
aagcctctcg acatattatg cgcccgaatc ggacatccgt gtgaaaagtt atgaccattt 240
gtatttctca agagcttccg atgttcaatt tcgagcctct cgacatatta t 291

<210> 19937
<211> 468
<212> DNA
<213> Glycine max

<400> 19937

tcttggagtc ttctatgcaa tgcccttggg gggtaggatt actatattct ctccccctt 60
gaaaaggatt tgatctcaaa tccatagggt cttgaaactc atggattctt tcctcaacac 120
ctctaaaaag aataaaaaaca tatgtattag tgatgttggg tatgttagag tacgataagg 180
actgaagacc ctttcttgg ccatcttccc atgagagaat atagttctc accaactcag 240
tgagtgggtgc tacaagtata gaaaaatatg ggataaacct ttcgtaaaag tttgttaaga 300
tattgaagcc cctaatttcc cttatacatg gcgtagtaag ctactcaaga atgacctta 360
ttctcttagg gtccatggga agcccttgat cactatttaa aaagttaagg aaagtaatgg 420
aataaaatat accttttttc tttattttca tgttgattat tcctacaa 468

<210> 19938
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19938

ctttgatact ntgaaacaga aactgacctc tgctcccata atctttgctc caaattggac 60
aatagatttt gaaataatgt gtgatgcaag tgattatgca gtaggatcag ttctgggtca 120
aaggaaaaat aaaatttttc atgtcataca ctatgaaagc aaggttttta ataaagctca 180
aataaattat gccacaactg agaaataatt gcttgcaata gtatatgctt tggaaaaatt 240
tagatcttat ttgataggat ctaaaattat ggtttttact gatcatgttg ctataagtta 300
tctgttagtt aaagctgatt ctaaacccca acttatccga tggattctgt tgttgcagga 360
atltgactta aagatcaagg ataaaaaggg aagtgaaaat tatgtagtgt atcatctgtc 420

taggctgacc aatgatgagg tgatcacaca agaacctg

458

<210> 19939
<211> 424
<212> DNA
<213> Glycine max

<400> 19939

tggactcgat ggggccgatg catgttgaaa gccttggacg aaagatgtat gcctatgttg 60
ttgtggatga tttctccaga tatacctgag tcaattttat cagagagaga tcacacacct 120
ttgaagtatt caaggagttg agtctaatac tgcaaagaga gagagatagt gtcacatga 180
gaatcacgag tgaccatggc agagagtttg aaaacagcaa gtttactgaa ttctgcacgt 240
ctgaaggcat cactcatgag ttctctgcag ctcttacacc acaacaaaat ggcatagttg 300
aaaggaagaa caggactctg catgaagctg ctacggtcac gtttcatgct caagaaattg 360
cctataatct ctgggctgaa gccatgaaca cagcatgcta catgcacaac agagtctcac 420
ttat 424

<210> 19940
<211> 398
<212> DNA
<213> Glycine max

<400> 19940

atactcaacc ttctagatga gttatgtctg cgaatcggac atcctgtgat atgttattac 60
catttgaatt tctcgagtgc gtggcgttgt ttaatttcaa gcgtctcgat attttatgtc 120
ctcaaatcag acatcggagc gaaatgttat gaccattcga agttgtcgag agcttccgtt 180
tttcaatttc gagcgtctac atgagttatg tcaccgaatc atgacatctg agtgaaatgt 240
tatgaccatt ccaatgggtc gagagcttcc gctgttcaat ctcgagcgtc tagatgagct 300
atgtaccgca atcggacata cgcgttaaaa gctgtgacca tgctgatatg gcgagagctg 360
gcgctgttca atcacgagcg tctcgtatta ttatgtcc 398

<210> 19941
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19941

aaaaggtaat attgtagccg atgctctttc tggcgctcat gcattacttt ctatgcttga 60
aacacaattg attggtcttg aatgtctgaa aagcatgtat gaaaatgatg aaactnttgg 120
agaaaattta caaattgtga aaaattttca gaaaatgggt tcttttagaca tgaacgctgt 180
cttttcaagg aaaaataatc gtgagtgctt aaatgttcca ctatgctc ctatgcttga 240
gaagcacatg aaggagggtt aatggggcat tttggggctc aaaagactct ataaacatta 300
caagaacatt nttattggcc tcatatgaaa aaggatgtg 339

<210> 19942
<211> 243
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19942

tgttgatgca agaggagcat cccattgcat antttagtga gaaatcgaat ggggctgctc 60
ttanctattc tacatatgat aaggaattgt atgccttatt aagagctttg cagacttggc 120
agtataatct cttgccaag gaatttagta ttcacagtga tcataagtct ttgaatactt 180
gaaggacaag gaaagttgac aagtgcacgc cnatatgtgg aattcttgac aattcccat 240
gtg 243

<210> 19943
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19943

agcttgnta ccccatgttg aatntgcttt ctttatagct gttcatagca ccactaattg 60
ttctcctttt gaagttgttt atggttttta cccactaact cctcttgatc ttttgcctat 120
gcctaattgt tctgttttta agcataaaga aagtcaagca caggcggact atgtgaagaa 180
gcttcatgag agagtcaaag atcanattga gaggaaaaat aaaagctatg ctaaacaagc 240
caacaaaggg agaaagaagg gtgtcttcga acccggagat tngntntggg tgcacatgag 300
aaaagaaagg tttccggaac anaggaaatc aaagcttcaa ccaaggggag atggaccatt 360

tcaagtgcctt ganagaatca atgacaatgc ttacanagtt gagctgcccg gtgagtataa 420
 tgtagttcc accttcaatg tctctgatnn tatctctttt ga 462

<210> 19944
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19944

taattattca tgcactatgt gtattttaat gnttcaaaac ngtnngttct taaatctaaa 60
 tagcttagtt ggagaattaa atttaaaaaa taattataaa ataattacat aactcttcat 120
 gcgatattca cacctttata acataattag tagtatctaa caccttataa tttgtatata 180
 taattttaaa aataattata ggaattcatt aatgtacacc tacctatttt tttagaagta 240
 gttactaaat tacaataaga ttcttaaaat acatcccagg cctaagttgt taagattatg 300
 ttttaataaga tattttagga gtctataagt tattttgact aaagtaaact tgtctaatac 360
 atgagtttan tttttataaa ctaccttaag agaacttatt ttgataagtt acttaaactt 420
 ataaaagata agctaactta aaagtttctt ttcatt 455

<210> 19945
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19945

agcttcatac aactgagaca tggtagaata atagngtact ccaggcatng ccgttngctg 60
 agatctcatc acccttacag actatcgaaa aaagctttta atggaagtca agagcacgaa 120
 actgcgctga taccattgac tggtagaatag gtcttccagt gggttgaaca cctgaatact 180
 gtatttggaag agacctaaaa gaaggataaa agtaagactt gcatatggaa gaagagggtc 240
 attttctttg atatttcgta ttggtttgat ctagatgtta gacattgtat cgatgttatg 300
 catgtggaga aaanagtatg tgatagtgtc attgagacgc tccttaacat tcaatgcaag 360
 atgaaagatg gtctgaatac ccgtcatgat ctatctgaca tgggtatacg atcgagttg 420
 catccaaagt ctgggtgggaa aatatacttg cctccaactt gtcatac 467

<210> 19946
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 19946

latagaalat acaataaang aacaaagact atgaagaat caacacgtgt tctttagag 60
 agtctaattgc tattttctccg agaaaggata ttttagatga tgttgacagaa tcttttagaat 120
 gaatgcatat tcatggacaa gatttctaaag ggaaagggaa aggaagcaat gaagatcctc 180
 ccgaagaaga tcatccccctt gacaacatta ttggtgatat ctcaaaagggt gtaacaacta 240
 gacattctct taaagattta tgcaataata tggctttttt atctatgatt gaacctagaa 300
 atataaatga agccatatta gatgatcatt ggatagttgc tatgcaagaa gaactaaatc 360
 agtttgaaag aaacaatgtg tgggaattag taaagaaacc tgaaaattgc cctatcatag 420
 gaacaaaatg ggtatatt 437

<210> 19947
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19947

tgcaagctat taagccaat caaaaccac gtcgtcacat acccgcacac aatcgcggn 60
 cacgggtcta ctacggcaca gcccgatgta atcgacgca acccgtaag caggccgtta 120
 catccgtcaa tgcggtcca atggcccacc aataaccgca gtgctccag ccaatgccgt 180
 cgtgacagct gtctcccta tgcggtcca ttgaccataa tacccttcgc tatagtata 240
 aacgaaccag ggttgaagcc gtaccaccgc aaccacaaca taaacgaacc aagcacaact 300
 aaagacgcgc tgtggccacg caaagccaca gaccggcccg tccggtcgaa ccgngcgatt 360
 ctcgggcctt caattaaagc cccccacatg ctogctatcc cgccaacat gtgaacaacg 420
 cctgagcccg caaagtcgat gactccagac ccgaacaaaa ca 462

<210> 19948
 <211> 414
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19948

agcttcaaca ttcaatttcg agcgtctcga taagttatag gactcaatca aacatccgag 60
tgaaaagtta tggctcgttg tattggctca aagcttccac tatcaatttc aagcgtctcg 120
atatgttacg ggcctcaatc agacatccga gtaaaaagt atgctcggtt gatttcgctg 180
agagcttcaa ctttcaattt caagcgtctc gatatgttac gggactcaat cagacatccg 240
agtaaaaagt tatggctcgtt tgtattggct cagagcttca actctcaatt tcaagcgtct 300
cgatatgtna cgggactcaa tcagacatcc gagtaaaaat gtattgtcag tntgataggc 360
tcagagggtc aactttcaat gtctagcgtc tcgatatgtt acgggactca atca 414

<210> 19949

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19949

cgcttaaagg tactttcata cacagtaa ataatgaggaa gaattcttct agagaaaata 60
agttatgtat tataatgtaa aattatttta cattaatatt caattataaa ttaacatata 120
tgataaattt gttgatattt ataataacta ccttgaaaat cgtaataata acgatatttt 180
attagtttag tataaaatta ttttaatttg tcatgactat taaattcttt aaatatttaa 240
tataccacta ttttcataat gaatgatatt atggatgatca gtgttatgaa caattttaat 300
aaatgtaaat gttaatcctc tcgccttaac ttcaataact taaaattnt ataaatgtca 360
ttgttttatt tgaataatat aacatttgaa ttaacataaa ggtcaaagga tgatcgtcta 420
tttagcttaa t 431

<210> 19950

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19950

tgaagagaat gcaagagaga ggataaggaa acctattatt ttaacatgga aagaaataaa 60

ggagtttata aggaagatat tcttaccacc ttattatgag aaatatgttt atgataggct 120
 acaaaacctc acaaaaggta gcaaaagtct tgaagaatac cataaagaga tgataatgac 180
 cattaggaaa gccaatgtac aagagcctaa aacttcata acaaggttcc tatgtgggct 240
 taataaagac attcgatgca ttgtgaagtt acaacactat aagagcttgg aggalatggc 300
 gcatcaaycc aagaaagtgg aaagacgac ttgagaggaag cattcctaca agaaagaccta 360
 tcaccatgac tcttcccggtg gtaaggacaa gtctaagaaa tagggatctt cccacactgt 420
 aacat 425

<210> 19951
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19951

agcttaatga gtttcttggtg tggctctcttg attaaattga tgcattgttta aaaaagtatc 60
 atgtcccaga cgaaagtatt tctctattca gtgttttctg cagatatggn gaacgggatg 120
 actcanaatc cataatgaca gattgctcct cttcagtatc atctggctctg gactcagatt 180
 ggtgttggtta tatcaagttg agaatgaaag aaaaaggact aatcctatta gtagtcatca 240
 gatagatgaa ctatgttttg atgaatcggt gcgatttgag acattaaatc aagtagttga 300
 ggctgcgcca gattcctcta cccttgccaa aacctttgat tntgttatgt caaaagatgc 360
 tggaagatcc agtgacttag canacgcaag tntgtccatg agtgagtttt cggtcanaag 420
 ccagcaccgg tgcgctacaa tgagaaacct tctggagtct cttatcaca 469

<210> 19952
 <211> 433
 <212> DNA
 <213> Glycine max
 <400> 19952

tctagtctca attgtgaggg tctcgatata ttaccgggtt cattcggaca tccaagtaaa 60
 aagttattgt tggctgaatt tcctatgagc ttcggttttc aatttgtagc gtctcgatat 120
 attacaggac tcaaccggac atccgtgtat aaagttattg tcatttcaat tttctcagag 180

cttcggatct aaatTTTgag cgtctcgata tatgacggga ctcaatcaga catccgagtc 240
 aaaagttatt gtcgTTTgaa tttgatacga gcttccgTTT tcaatTTTgga gcatccctcg 300
 ataaattaca acactctgtc gggcatccga gtaaaaagtt attgTTTgTTT gaatTTTcta 360
 acacgTTTcg tTTTcaatTTT ggagcgtctc gatataattac gggactcaac cggacatccg 420
 cgtatacagT tat 433

<210> 19953
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19953

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 atatcttaag,aagggggggg ttgaatTaag atattcgaaa ctttntcttc taattaaaaa 120
 tctatcttac tttntactta agttatgaat tcccttanag acaatcttct tanatattaa 180
 ttcanatgaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240
 agagaaaatg caaactcagt tntatactgg gtcggccaca cccttgTgcc tacgtccagt 300
 ccccaagcaa cccgcttgag agttccacta acttggaat tccctntaca agttctaaac 360
 acacaaggac aacccttcct ttgtggtaga gattctnaca acaagagact cacagtctct 420
 taatccctta gagaatgaga agaagaagag gaacanatct ctcttgaaag agat 474

<210> 19954
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19954

tcagcacttc tgtagggttt cagggcTTTc catcagctct gtattaatct gccatatact 60
 cagccggtat taggcctcat gagcttTctc atattcagct gcttactgga tttagcttg 120
 gtggcttccc ttttagatac ttgggtgttc cccttttata atctagatta aatgtatata 180
 actatgctcc cttgcttTcc aagattactg gcctgattca gggatggagc aggaagtctt 240
 tatcttatgc aggtaagcta gagttgatca gagcagttat tcaaggaatt gtgaatttct 300

ggatggggat ttttcctttg cctcaatctg ttctggaccg gatcaaggct tcatgccgta 360
 attntctgtg gggcaaagcg gatattggca aanacaagcc cttggttgcg tggtcagtag 420
 tttgttctcc gaaaa 435

<210> 19955
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19955

agcttgagca cctccttccct tacctcttcc ttcatgttg ggttcagcct tctctgaagt 60
 tgtcggactg gcctgtagtc ttcttccatc attatcttgc gcatgcagta agcagggcta 120
 atacctttta gatccgatat atgccaccca attgcttccct tgtgtttctt cagaatttct 180
 actaacttgc tttcttccatc ggatgtgagt gtattgctga tcaccataag cttactctca 240
 tcttcttcta ngaacacatg cttcagatgg gtgggaaata tcttcaattc taccttcttc 300
 ttcttagatg gagtcttgc ctttagttcc tcanaactgg cctcctctc anggatgta 360
 tcttgctgat ccaagtcttc taagcaagcc ttgagatctt cttcttcttc attggttaag 420
 caatctatcg cattcaccat 440

<210> 19956
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19956

tgtcatactt tgtccaanaa agagaaaatc agtttttgcc tgtgtctgcg ccgggttaaa 60
 gtccataaag gatactcttc aaatattaag agccttgtgc agttgaagaa gcttaaccta 120
 gtgggggttaa agtctcatga ttgtcacatg ttgatgcaac aattgttagc cgtggccata 180
 cgagacattt tgcctaacia agtcagggtta gccataactc gcctgtgctt tttcttcaat 240
 gccatgtgta gcaaagtcct tgatcctgtc aagtttgatg acctggaaaa caaggctaca 300
 attatactgt gccagttgga gatgtatctt cctcctgctt tctttgacat catgggtccac 360
 ttaattgttt aactggctag agaaatcaaa tgttggtggtc ctgtatatct gtgctagatg 420

tacccgg

427

<210> 19957
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19957

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gggaagattt tctccaagaa caccctctta aggtcatccc agctgaaaac ggacctggga 120
gcaaggtagt atatccaatc ttttgtcact cctccagag aatgaggaaa agcctttaga 180
aagatatgat cttcttggac atcaaggggc ttcattggtg aacaaaaaat atggaactcc 240
ttaagatgct tatgaggatc ttcacctgca agaccatgaa actttggcag caaatgtatt 300
actccagtct tgagaacata tgaaacaccc tcattcatgat attgaatgca caagctttca 360
taagtgaaat caggtgtagc catctcccta agagtcctct tacgaggtgg aggttgagcc 420
atgttctcag tatgaaaa 438

<210> 19958
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19958

agcttctgtt gtgacatctt gacttgcttc ccaatctgac attcaccaca gattctgcct 60
ttntctattt tcagattgag aatgcctcta acagcacctt tgtcaatgat tntcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattt tgacttcac tcttttggag 180
gatagacatg tggaggagta actggtttct tgagggtgtc ataggtaaca gttgtccttt 240
gatctgctgc cttcattag aacttcactc ttctcatttg tcaccaagca ttctgactnt 300
gtgaagttaa cattgaatcc ttcattcacac aactgactga tgctgatcaa gtntgcagtc 360
agtcccttca ccagcagtag tttgttcaga ctangaagtc catcatggac tagctntccc 420
attccagtga tctt 434

<210> 19959

<211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19959

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agcttgatg atgcttcatt ggaggaaaag aaagagggag ataaagatag aggtgggagc 60
acgaaattga aggaalaana gagggagaga aggggaactt tgatgaatga gagtggagca 120
agctccattg gagcttgtat gcctangatc ttcttcatca gtggattcct ttgcttcttg 180
gaagataaat ggccgcggaa tggagaagga agagagagag gagacgccgc ttcaatgaga 240
agataagtct agaagaagct caccaccata cgaggccatg gataagagct tggaggacga 300
aagagatgaa tgaagggagg tggagagaag agcacgatat tctgtgctca gatagagctc 360
tgagatctaa agttaatatt canatgatca 390
```

<210> 19960
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 19960

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taagaggcca tggagattga gatggagaca gacacgtgtg gtttatagat ttcacctgta 60
ttagttttct caaacattat ctttgcccc aattacatga ttagatagcc ttgtgacaat 120
caagggagta ccattacata aaccttcaat ttgatctaaa ttccttaaaa gcatcattgg 180
tgtgccaatc ttcaatttga ttttatgatt tgggaaggccg atgttccaag agaatttgaa 240
aattcaaggg ttaaagcctc gaatatttgg tcttcatttg attataaatt gtcaaaagaa 300
tctaagctta gatattgttt ttcaactata acataattgt aaacaattta actaatttga 360
ttgtttcaaa tgaaagatat ttgtgtaact ttttcaaatg gtagatgaga ttacatcgat 420
ttaaagataa tacatattc 439
```

<210> 19961
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19961

agctnatagc caattcanac gacanataac ttttacgcga atgtctgatt gagtcctgta 60
atataacgag acgctcgaaa ttgaatgttg aacctctgag ccaattcaaa cgacaataac 120
cttttacacg gatgtctgat tgagtcctgt catatatcga gacgctcgaa attgaaagtt 180
gaatctctga gccaatccaa acgacaataa ctntntactc ggatgtctga ttgagtcctg 240
taataaagc agacgctcaa aattgaatgt tgaagctctg agccaattca aacgacaata 300
actntntaca cggatgtctg attgagaccc gcataatcg a 341

<210> 19962
<211> 466
<212> DNA
<213> Glycine max

<400> 19962

taaatattca atttcgagcg tctcgatata ttacgagtct cattcaaaca tccgagaaaa 60
aagttattgt cgtttgaatt tgctcagagg ttcaacattc aatttcgagc gtctcgttat 120
attacaggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcagag 180
cttcaacatt caatttcgag cgtctcgata tatgacagga cgcaatcaga catccgtgta 240
aaaagttatt gtcgtttgaa ttagctcaga ggttctacat tcaatttcga gcgtctcatt 300
atattacagg actcaatgag acatctgact aaaacgttat tgctgtttga attggctcag 360
agcttcaaca ttcaatttcg agcgtctcga tatatgacat gactcaatca gacatccgag 420
taataagtta ttgtcgtttg aattggctca gaggttcaac attcaa 466

<210> 19963
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19963

agctnagatt gctctattca atggagtnga caagaatatc ttcagactga tcaacacttg 60
cacagtggcc aaggatgcgt gggagatcct gaaaaccact catgaaggaa cctccaaggt 120
aaagatgtcc agactgcaac tattggctac aaaattcgaa aatctgaaga tgaaggagga 180
agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
gngagagaag atgacagatg aaaagctggt gagaaagatc ctcagatcct tgctaagag 300

atttgacatg anagtcactg caatagagga ggcccaagac atttgcaaca tgagagtgga 360
tgaactcatt ggttcccttc aaacctttga gctaggactc tcggata 407

<210> 19964
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19964

nttgcaagtt ggaatcattt atcctatctc cgacttccaa ttggtgagtc ccgtccaggt 60
agttacgaag aaaaccggcc tcgccgtgat aaaatatgag aaggatgagt tgattcctac 120
tcgggtgtag aacagttgga gagtatgcaa cgactatagg aggctgaacc aggttaccaa 180
aaaggaccat tttccactgt cattcattga ccagatgctt gaaagcctgg caggtaaatac 240
tcactactgt ttccttgatg gtttttctgg ttatatgcaa atcactattg cttctgagga 300
tcaggaaaag accacattca ccttcccctt cggcactttt gcctatagga ggatgccttt 360
cgacttgtgc aatgccctg gtaccttcca gcagtgcagc attatgtatt ttagtgattt 420
tttagaaaat tgcatagagg tgttcatgga tgatttcact a 461

<210> 19965
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19965

ntttgaaaga atggaggaga ggaagaaaat agaatagcac tcgtctttgc ccgtgaaat 60
tttctggaca gagcatatgt tgaacaaaaa ctcttagaaa gatattgaga aattggttgt 120
tttaaattca tgccatgatc acatatttat agccatttga tggctcctga agaagccatg 180
ttaaagttg tgacttttgg caatttcttc aaaaccagtt agttacttta aaaagttgtg 240
acttgacaat tttttcaaaa ccagtcactt taaaagttgt gactcttgac aatttcttca 300
aatcagtc aatggaatcg attaccataa tgggtgtaac gattacacag tttattttat 360
caaaagttgt gactcttcat gttgaggttt gaaatccaac gctcaaaaac cattagtaat 420
ctattacaaa tat 433

<210> 19966
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19966

```

ggataaaatn gaagctatnt ccttaatctc gcaggctttg gtttgcctct taatttcctt 60
tcaacttacg tgctaccacg ttaaataaac agtatgtaac tataactaat ttacagtagc 120
tgctttgttt atgtaataca taacaataaa aataagcagc tttgtctatg tcatatatgt 180
aaaataaatt aataataaaa tttctattag tacctataac aagtgtggcg ttcctcatga 240
tttttataat tatgatttga tgtatagaat ttcatatata gaatgggtat gaaaataata 300
tacatggaga gaaagtaatt ttaattgaat ataattagaa taaattatta aaatattaga 360
catatatact tggtttcaaa tttattttaa aaataaaata attgggtattt atatacacac 420
atgtacgtgc accagaaaca aattaatat 449
  
```

<210> 19967
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 19967

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taggagaatg aaacccgaaa tgtcactaag aatcaaggta tgatgcgaaa aagcagttca 60
acgctggttt cttggcggtg tctcgatacc ctgagtgggt ggccaacatt gtgtcgggtc 120
ctaagaagga tgggaaggta tgaatatgtg tggattatcg ggacctaaat caagccagtc 180
ccaaagacaa tttccctcta cggaacatcg atgtcctcgt agataacacg accaattttg 240
ctttgttctc catcatggac ggtttctcag gctacaatca aataaaaaatg gtactagagg 300
atatggaaaa gaccatgttc gtcaccctgt ggggaacgct ctgctataag gtgatgtctt 360
ttgggctaaa aaacgctggg gcaacctatc aacgggctat ggtggctttg ttccacgaca 420
tgatgcaccg agagatcgaa gtct 444
  
```

<210> 19968
 <211> 416
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19968

agctagattg gttttgtgat agnngatttg caggagatgt tgatgataga aaaagtacta 60
ccggatttat gttttttag ggtgattgtg tttttacatg gagttctcag aagcaagcca 120
ttgtgacact ttctacttgt gaagcgcagt atgtagctgc aacttcttgc acatgtcatg 180
caatttggct aagaagatng ttgaaggaac ttcacttggt gcanaaggaa aacacaaaga 240
tctatgttga taatagatct gcacaagagc ttgccaagaa tccggtgttc catgaacgaa 300
gtaagcatat agatacaagg tatcatttca ttagagagtg cattgccaag aaagaagtag 360
aattgactca tgtgaagact caagatcaag ttgtggatat tntaccaag cctctc 416

<210> 19969

<211> 461

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19969

tctatagaag gttcattcct aatttctcta caattgcac actgctcaat gagctggtga 60
agaaaaatgt ggcatttacc tgaggtgaaa aacaagagca agcctttgct ttgctcaaag 120
aaaagcttac taaggcacct gttctagctc ttcctgactt ttctaaaact ttaagctag 180
aatgtgatgc ctctggagtg ggagttagag ttgtattggt acaagggtggg caccctattg 240
cttatttttag tgaaaaactt catagtgcc aacctcaacta cccacactat gataaagagc 300
tttatgcctt aataagagcc cctcaaactt gggaacattt ccttggttngc aaggaatntg 360
tcattcatag tgatcaccaa tcaactaagt acattagagg gaaaagcaag ttaaacaaaa 420
ggcatgcaaa atgggtagag tacctagagc aatctccata t 461

<210> 19970

<211> 414

<212> DNA

<213> Glycine max

<400> 19970

gtgaatgctc tattcaatgg agtggaag aatattttct tactgatcaa cacatgcaca 60

atggccaatg atgcatggga gatcctgaaa accactcatg accgaacctt caaagtgaat 120
atgtccaaat agcaactatt ggccacaaaa accgaaaatc tgaatatgaa ggaggaacag 180
tgtattcatg actctcacat gaacattctt gaaaatgcca atgcttgac tgccttggga 240
gaaaggatga cagatgaaaa gctgggtgaga aagatcctca tctccttgcc taagagatat 300
gacatgaaag tcaactgcaat tgagggaagcc cataacattt gcaacatgaa acatagatdaa 360
ctcattgggt cccctcagac ctttgagcta agactctcgg atatgactga aaag 414

<210> 19971
<211> 395
<212> DNA
<213> Glycine max

<400> 19971

agcttgaatt tgaacaacgg aagctctcga gaaaatcgag tggtcataaa ttttcacaca 60
gatgtccgat tcggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120
gagaaatatg aatggtcata acatttcaact cggatgttcg atccggggac ataatttatac 180
gagacgctcg aaattgaaca accgaagctc tcgacaaatt agaatggctc taacttttca 240
cgcgaaatgtt cgattcgggg acataactca tctagacgct cgaaattgaa caacggaagc 300
tctcgagaaa tttgaatggt cataagtttt cacacggatg tccgattcgg gaacataata 360
tatcaagaca atcgaaattg aacaacggaa gctct 395

<210> 19972
<211> 313
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19972

cccatttcta ccaactacaa aacctaagaa aactatatta tctacacaaa aggtacactt 60
ctctatattt gcatagaggg tgtttttcct aaggactgaa agaacttgct tgagatgtcc 120
taagtgatca tctagcctcc tactatacac taaaatatca tcaaaataaa caactacaaa 180
tctacctatg aaatccctta agacatgatg cataagcctc ataaagggtgc tnggtgcatt 240
agtgagccca aaaggcatca ctagccattc atacaaacca aacttggtct tgaaagcagt 300
tntccactca tca 313

<210> 19973
 <211> 464
 <212> DNA
 <213> Glycine max

<400> 19973

agaaagtggtg tagcccaacg acatctccata gtagaatact gctcttggtg ccaacatgat 60
 tgtcatcatt gtttttctct gtcattgaag tgctacttga gctgccaaagt ctctccacct 120
 ttggggcgtat cctttgaaag atccgtaccc tctttttgca catgttctgt agttgcatcc 180
 tatccgaaga cattatactg aactgacct atgaaggcaa ccactaggtc cttccaagaa 240
 tggactcggg aaggttccaa gttagtgtac caggtaacag ctacccagc aagactttct 300
 tggaaggaat gtatcagtaa ttctctatct tttagcgcatg ccccatctt ccgataatac 360
 atcttttagat agtttttggg gcaagtagtc cccttgtagt tgtcaaagtc caacaccttg 420
 aacttgggag gggatgatgat attgggttct aggaaccaac tttt. 464

<210> 19974
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 19974

tcttggagtc ttctatgcaa tgcccttgag gggatgatt atttcattcc ctccccctt 60
 gaaaaggatt tgatctcaaa tccatagggtt cttgaaactc atggattctt tcctcaacac 120
 ctctaaaaag aataaaaaaca tatgtattag tgatgttggg tatgttagag tacgataagg 180
 actgaaaacc cttttcttgg ccatcttccc atgagagaat atagtctctc accaactcag 240
 tgagtgggtgc tacaagtata gaaaaatatg ggataaacct tttgtaaaag tttgttaaga 300
 tattgaagcc cctaatttcc cttatacatg gtggagtaag ctactcaaga atgaccttta 360
 ttctcttatg gtccatggga agcccttgat cactatttaa aaagttaagg aaagtaatgg 420
 aataaaatat accttctttc tttattttca tgttgattat t 461

<210> 19975
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 19975

tcttagtttc agatgatgca gatggatttg tagctacctt atgcactcct ctaatgacta 60
tggcatcatt tctggcgcta aactgttggg agttggaagc catcttctca attaaatttc 120
tggcttcagc aggaatcatg tctccaaggg ctccaccact ggcaacatct atcatacttc 180
tctccatatt actgggtcct tcataaasat attggagaag aagctattct gaaatctgat 240
gggtgggggca actggcacat agttttcttaa atctctccca gtactcatac aggctctctc 300
cactgagttg tctaatacct gagatatact tcccgatggg tgtggtcctg gaagcaggaa 360
atTTTTTTTc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcaa 420
ggtatt 426

<210> 19976

<211> 417

<212> DNA

<213> Glycine max

<400> 19976

tgcctgatac tatctgagat ccctttgtcg ttgccttctc ttcgagggtg aagcttaagg 60
agaaccagg ctcctatctg gtagttcact tcgcgacgtt tcccatcagc ttggcttttc 120
atagcagctt gttccttaga agcttatttc gaatagcttg gaaagtgata tccctgtcag 180
ttaacatctc ttcaacggcc tcaatgttcg aagaccctgt aatatattct ggatagttaa 240
aggttttcgg ctaaaggtaa caccatacgt agtggctcca gttcccatat tccatgaagt 300
attatgggat cattcgacct acgagaggag cttccccac aagcttggcc gaggatggat 360
gaaggctcgc aaatattggt caattatgcy attcaaaacc tctgtctgtc catcaat 417

<210> 19977

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19977

gacactctcg aacactcacg cttatagaat atgtanataa gagactctga ctatttctta 60
atcattcatg tttccatgga tgaaacaaat gctatttctc ccagaaagga tattttttaat 120

gatgttgcta aatccttata acgaatgcat atccttggac actattctcc agggacaggg 180
agaggaagca ttgaaaatcc tcccgaaaaa gatcatcccc ttgaccacat tattggtgat 240
atctcagaag gggtaacgac taaacattct ctctaagatg tatgctataa tatggctttt 300
ttatctaaga ttgaacctct aaatataaaa gaagccgtat tagatgagca ttggatagat 360
gctatgcttg aacaact 377

<210> 19978
<211> 369
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 19978

tatagaatat ataattacat aactaagacc attttagatt ttattcatgg caccttccga 60
tgaggctaga gtgctatttt ctcccacaaa cgatatttta natgatgttg cagaatcttt 120
acaatgaatg catattcatg gacaatattc taaagggtaa gggaaaggaa gcaatgaaga 180
tcctcccgaa gaagatcatt cccttgacaa cattattggt gatatctcaa aaggggtaac 240
aactacacat tctcttaaag atttatgcac taatatggct tttttatcta tgattgaacc 300
tataaatata aatgacacca tattacatga tcattggata gctgctatgc aagaagaact 360
aatcactt 369

<210> 19979
<211> 407
<212> DNA
<213> Glycine max
<400> 19979

cgttgctcct ctcttacacc tgcagatgta atcaagtttc tcataggaga ttttaggttg 60
agtaaagctc gagccagtga tctcttttgg gaagctgttt ggccctcgtct gttagcaaaa 120
ggctggcatt ctgaacagcc tatagatcaa gttgtttctg gatcaaaaca atctttgggt 180
tttcttgtag ctggtgttaa gaaattttca agaaggaaac tgataaaaagg tgaccactac 240
tttgattcta taagtgatgt tttgaataaa gtagcatctg accctgagct tcttgagact 300
gaaagtcaag caactgaggg cagtgtagat agggaaaaaa cagaagacaa aggagaccta 360
gaggggtgtgc caaatagga acaagttcat taccttcaat ctcaaag 407

<210> 19980
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 19980

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agcttctaaa ctttatacaa gaattaatct ctgataccac ttgttagaca agtgggctca 60
gatatcttaa gaaggggggg gttgaattaa gatatcccaa attactttcc acaattaaaa 120
atttatttca ctttcttttc cggttataga ttcccttaac aatgaacttc ttaaataatta 180
attcaaataa aacaatttga atatgaatgt taagcaataa taaacaaagg aggttaaggg 240
aagagaaagt gcaaactcat atttatattg gttcggccac acccttgtgc ctacgtccag 300
tccccaagca atccgctaga gagttctact atcttgtaaa ttctttttac aagttctaaa 360
cacacaaaga caatccttcc ttttgtgtt 389

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<210> 19981
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 19981

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taacaatcag tgtcatacta ttgatcaaaa caaagtctgt atttatatgc aatactagac 60
tcaaaatatg caacaaacac tagacctaaa tcagtgtcac agaaattgga agaaaatatt 120
ttatccaagc acaaacttca agccttattc catgtattgg ggggaagtta tggctggcca 180
tatgggtaga ggtgtcatag aggagcaggt atggaggaag ggaccttgga ctgctgaaga 240
ggacagggtg cttgttgagt atgtcagggt gcatggtgaa ggtagatgga actctgttgc 300
taggcttgca agtaagaaac accaaacttt tttcactgtt ttgtttctta atatatatga 360
ttggattttc acatttataa gtgacaatat agcaaaaaaa caactgaaat tgttttcaac 420
ttctactgtt catgttggct acatt 445

```

<210> 19982
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 19982

agcttctaaa ctttatacaa gaattattct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaaggggggg gttgaattaa gatatcccaa attactttcc acaattaaaa 120
atttatttca ctttcttttc aagttataga ttcccttaac aatgaacttc ttaaataatta 180
attcaaataa aacaatttga atatgaatyt aaagcaataa taaacaaagg aggttaaggg 240
aagagaaagt gcaactcac atttatattg gttcggccac acccttgtgc ctacgtccag 300
tccccaagca atccgcttga gagttctact atcttgtaaa ttctttttac aagttctaaa 360
cacacaaaga caatccttcc tttgtgttta gaattccttt acaac 405

<210> 19983
<211> 298
<212> DNA
<213> Glycine max

<400> 19983

cagagcacct gagctgcagc ttgattcctt gcccgacctt ttttttttat gtgcacccaa 60
accaaggtc cgggtgagaa tacaacctcc tttctccctt tgtcggcttg tttaacatag 120
cttttatttt tcctctcaat tagatctttg actctctcat gaagcttctt cacatagtcc 180
gcctttgcta gaccttcttt atgcttaaaa acagaaacat taggcatatg caaaagatca 240
agaggagtta gtgggttaaa accataaaca acttcaaaag gagaacaatt aacgggtgc 298

<210> 19984
<211> 264
<212> DNA
<213> Glycine max

<400> 19984

cctttcattc tgacatcatt caagaactcc ttagaacccc ccaagaacca cagacaaagg 60
ctatgactga aaaagctgtg aaggttggtg aagagggtcaa gttcttctca tattatgctc 120
atcacgttgc cactagtgat catgcagggtg atatcctaaa gaggggtctac atgattccaa 180
aagaaagggg acacattatt ctcaatgggtg tgggcccaaca cgctttcacg ccagatgttt 240
cgaaggggaa ggacttcaaa aaga 264

<210> 19985
<211> 444

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19985

taagctcctt caactgcaca aggctcttaa tatttgatga gatccttggt gaaccttcac 60
ccgacgaaga cgcgcactaa aacttatatt atccttcttt gacaaagtar ggcaggataa 120
ggacaagtaa attttcttcc catcagacct tggatgcaac tgtgatcgta taccatatac 180
agctagatct tgacgggtat tcaagccatc ctctgtcttg ccttgaatgt taaggagcgt 240
cccaatcaca ctgtcacaaa catttttctc cacatgcata acatcaatac aatgtctaac 300
gtcaagatca caccagtacg gaagatcaaa gaaaatggac ctcttcttcc atatgcaact 360
ctgactntta tccttcttgt gggctctccc aaatacagta ttcaggtgtt gaacccgctg 420
atatacctgc tcactagtca acga 444

<210> 19986
<211> 227
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19986

agcttgtaat cgattacaca catatctggt tcgattatca gaggagattt tcagaaagat 60
attctcaatt gtcacatctt ttcagttggt tcttgaatgg ctatcaaagg cctatatatta 120
tgtgacttga gacacgaatt tgctaagagt ttttcagaac aaaaaggctt tatcctctta 180
aaaacaaaaa tcattttatc ctcttacaaa ttccttggcc aaaacac 227

<210> 19987
<211> 285
<212> DNA
<213> Glycine max

<400> 19987

agcttttatg cctcagatct tcttcattat tggagtcttt cgcttcttga agatcagtgg 60
tagcataata gagaaggaag atagatgatt ggagatgcc aattcaaggag aagatgattc 120
aagaacaagc tccccacat aggaagccat tgattaaagc ttgtatgtac gaaaagatga 180
gtggagggag aaaaagaaaa agagcaagaa aatttttgcc ctaatgaggt ctaaaacttt 240

gagtggaatt ctgaaatgga taaaagtga aaaaaaggcc cccca

285

<210> 19988
<211> 313
<212> DNA
<213> Glycine max

<400> 19988

ggaacaacac aggggagttt caagaaatga agagcccccg gttgatgcat ggacggagat 60
gaaaaagatc atgaggaagc ggcattgtgcc ggctactaac tcacgggact tgaaattcaa 120
gctccaaaaa ctaacccaac gcaactatgg ggttgaggag tattttaagg aaatggatgt 180
gctcatgatt caagcaaata ttgaagaaaa tgaggaggta aatacggctc gattgcttaa 240
tgggttgact aacgatatct gcgatacctg cacgagcttg ttgaaaagga tgatttgctt 300
cccaaagcac tcc 313

<210> 19989
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19989

aaagcccacc ctaacgcata caacacctta tcataagtag aataattaag ggtaagacca 60
cttaactttt cactaaaata agcaattgga tgaccttctt gcatcaacac agccccaatc 120
ccaacatttg aagcatcaca ctcaatttaa aaagatttta gaaagtctgg caatgcaagt 180
atgggggcat tagctagctt tagcttaaga acatagaaat cttcttctag tttatctaca 240
catctcacac caacattttt ttagcacttc attgagaggt gctgccaatg tgctataatn 300
ctacccaaat cgcctataaa accttgctga accatgaaaa ctcc 344

<210> 19990
<211> 386
<212> DNA
<213> Glycine max

<400> 19990

aaagttattg gcgggggaat ttgctcagag gttcaacatt caatttcgag cgtctcgta 60

tattacagga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa ttgggtcaga 120
gcttcaacat tcaatttcga gcgtctcgat atatgacagg acgcaatcag acatccgagt 180
aaaaagttat tgtcgttgga attagctcag aggttctaca ttcaatttcg agcgtctcat 240
tatattacag gactcaatga gacatctgac taatacgtta ttgtcgtttg aattgggtca 300
gaactctac attcaattac gagcgtctcg atatcgaca tgactcaatc agacatcga 360
gtaaaagtta ttgtcgtatg aattcg 386

<210> 19991
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19991

cgtggggcat atgtacttta agtgagagag aagatattta aatantggaa taataattaa 60
tattacgagt aaataacata taaaagatg attaatTTTT acataatcaa tcacatatta 120
tcataataatg taaattgatt gatagtaata ataaaaatat aaaattcata ttaattatga 180
tttaagttct aaacattata gatgatatga taaaaaaaaat gtgtataaaa atgagaaatt 240
aagcaataat gagagaaaat aaaattgaat aatgaaagag agaaagagtg tgaccgtcac 300
agcttccaat agattggtgt tgtcgtgcaa gtacttgagg acccatgtta gaacactcgc 360
tgtggtgtca tgtgcagcaa agatgacacc aatgagatta tcaacaactt gagaatctgt 420
gtgctgctga tagtacatct tgttc 445

<210> 19992
<211> 355
<212> DNA
<213> Glycine max

<400> 19992

agcttttttag aatatcaatc ttataagca aagaggaaaa atctatcatg acaaaaagtt 60
gtcaaaaagg aattttcagc ttggccaaca agtattgtta tttaattcta gattaacatt 120
gcttccaagt aagctgaagt gcaagtgggt tgaccattct tcatcaaaaa agttatgcca 180
catggagcaa tgatattgga ggaccaacc accaaaagga catggactgt gaatggcatt 240
agaatcaaac actacttagg tggagatttc gagaggctaa ccactgttgt ccaactgcaa 300

gaagcttgaa cccaacaagg acatccatct attaagacgt taaagaagcg ctccct 355

<210> 19993
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19993

tattggaggg agaattattca atccgaatca tggtaacnttt tgtaacgaag aatcttttttg 60
cggcttttag atgaggacag gtacgagcct ccataaagcg acacacaact cccaccgcat 120
atagaatatc gggcctcgta ttggtttagat accttaaact cccacaaga ctcttgaaga 180
ccgtggagtc taccttctct ccttcatcaa actttgataa cttcaagcca cttcccatag 240
gtgtgttcac gggattgcaa tcaagcatat taaatttctt caacacttct tttgtgtagc 300
ttccttgtga gacaaagatc ccattctccg tttgcttcac ttccattccc aagtaatatg 360
acatgagtc catatctgtc atatcaaatt caccgagacat ggactccttg aagtcttcaa 420
acaaatttgg gttattg 437

<210> 19994
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19994

gagcatatgc aaacgacaat cacttttttta cttggatgtc atantgagtc tcgtaatatg 60
tcgagacgcg tcgaaattga agaccgatgc cctgagcaaa ttcgaacgac aataactttt 120
tactcggatg tctgactgag tcccgtata tatcaagacg ctcgaaattg attatcgaag 180
ctctgagcaa attcaaacga caataacttt ttacttggat gtctgattga gtcccgtaat 240
atatcgagat gctcgaaatg gaataccgaa gctctgagca aattcaaacg acaataattt 300
tttactcgta tgttcgattg agtcccgtaa tatatcgaaa cgctcgaaat tgaatgtcga 360
aactctgagc aaattcaaac gacaacaact atttactcgg atgtatgatt gagtcatgga 420
atatatcgag atgctagaaa ttg 443

<210> 19995
 <211> 201
 <212> DNA
 <213> Glycine max

<400> 19995

agctttgtat ttcccttttag tagggaatct ttccttccta agatggagcc aaacctagtc 60
 cccctcatta agaactagct cacttccttc tccattgccc ttagttgaat acacctttgt 120
 ttggttctct atttgggtct taacctcttc atgcaacttc ttacaaact ctgacctaga 180
 ttcccccttc ttatgtataa a 201

<210> 19996
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19996

aattagggat catagttatg aacaaggcca tattgaatch taaggataca accaagagga 60
 aggcattggac tattatgaga cctatgcccc tgttgctagg ttggaagcta ttatattggt 120
 gcttcctttt gcttgtataa taaatttcag gttatatcaa atggatgtaa aagtgttttt 180
 ctcaatggat atattgaaga aaagatatatc gtggagcaac ctctaggttt ttagacttc 240
 gatcatccta atcatgttta caagttgaaa aaggcactat atggattaaa acaagcacct 300
 agatcttaga attctctagt tctatccaga aagagttgga gatgtctatg atgagagaat 360
 tgactntctt ccttggactt caagttaaga aaatcaagca tggaaccttt ntatgccaag 420
 caaagtacta cacataat 438

<210> 19997
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 19997

gcacaagggc caccgaaggg gggtagatcc tgagaaccac tcatgactga ccctccaaag 60
 tgaagatgcc cagattgcaa ctatgggcca caaaattcga aaagctgaag atgaaggagg 120
 aaaagtgtat tcatgacttc cacatgaaca ttactgaaat tgccaatgct tgcactgcct 180

tgggagaaag gatgacagat gaaatgctgg tgagaaagag cctcagatcc tcgcctaaga 240
gaattgacat gaaagtcact gcaatcgagg a 271

<210> 19998
<211> 348
<212> DNA
<213> Glycine max

<400> 19998
agctgtctcc tttttctcat tttatgcata acatgcaagt tcatatttta atttaacggt 60
tactaacaag actaaaatcc gtaataagat gaaaaataaa ttctcaattt aatacttatt 120
agtgtatatt taaaagaaag ctgccaaaaa ttagtaatta ttgattatca ttgggacatg 180
taagaaagac attatgtgtg ctttttttac tgagacaatg ttatttggtt taatagacta 240
ataatgtaat ttaacatatt gaaacatcaa attataaata ttctgtacaa aattaatggt 300
atatacgtgt tggatgtatc tattcagcat aaaaagggtc ttggatgt 348

<210> 19999
<211> 168
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19999

agcnttttat atatcgaggc gctcgaaatt gaacaacggt aagtcttgag aaattcaaat 60
ggtcataact tttaactcgg atgtccaatt catgcgcac acatataagag acgctaaaaa 120
atgaacaacg gaagctctcc agaagttaaa atggtcataa gttttcac 168

<210> 20000
<211> 422
<212> DNA
<213> Glycine max

<400> 20000
cgagtttcac gccgagtttt tacatcgagt ttctccggtc tgacgacggc gtggcgggtga 60
tgagtctgga gtcacacct gcatgtaaaa gtctggttgc tctggctccg gcgatgaacc 120
tcttcgtcca tgcgagcgaa tctgttctcc atcgtcagtt tccactccaa attctcgcgc 180
gcgctgtcca attcttcatt cacgatctcg tgtagccgct ccttgacat agtcgcaacc 240

ttggaaacga aaacgataca acttctctaa gtctcatgcc ctgcacggcg gacttggaga 300
 ccggtggggc gccgtaacgg atacgattgt actcggcgag gtgctcctcg agaccctccc 360
 cgtagaagta ataccctggtg gtgactctcg ggaagctgta cgttctctcg agtcccttat 420
 tc 422

<210> 20001
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20001

agcttggact ttctgtgttc tgggaacctc tccttctca ggtgtacca aaccaatca 60
 cctggttcaa gcacgacttt ctttttgctt ttgttggctt gccttgcata gctcacattt 120
 ttcttttcaa tttgagcctt cacttgctca tgcaacttct tcacatactc agctntagcc 180
 tgtgcatcat tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240
 aaaggattaa atccatatac tatctcaa at ggtgaacaat tagttgtgct atggacagct 300
 cgattataag caaactcaac atgaggcata caggctgtcc aagatttaag attnttctnt 360
 aatacagtcc taagcagtgt tcctaaagtc ctattgacta cactcagttg accatc 416

<210> 20002
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20002

agcttgtcat tggacaatat ggactctata gcactcctgaa tgtgactctc tgcgtccaac 60
 agattctcct tgcaatcagc caaacctgt tgaaccttag gttccaaatt ctggtcgtcg 120
 atcattctct tacaatcatt tagaatgctg ctgcatttg acgcgcagc cttcagagat 180
 atcattgcca gctcctctag gtccgcgtga tcaactgtctg ggtccgagga aagcacctgc 240
 atgcacaatt cattgtttcc cctgtttttg catatgctct taattagctc cttgccta at 300
 ttttcttccg ccgcaccgct tcngtgatgt gctagaacca accacatgca tatgcccac 360
 acccacaaca a 371

<210> 20003
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20003

atttntatat gattggctaa gatnncgtta aaacataagc acttagacaa tgaaggaaag 60
 ctggagttgc tgcacatgat gtccaacgtt atgtcaaaga ataagatcgg gctgcacaat 120
 gcacaaggca agataaagtg tcaaatgaag aattgaagct gcaggattca cgatgtcgga 180
 tacaatgtcc aggacatcct gcccgaataat actggagttg ctgaaagcat tgaagttgca 240
 agatccacga tgtctgacac gatgtcctga catccggccc gaatatactg gacatatataa 300
 tctgttatat ctntaacaga ttattgtgca gtttagcaaga gataagatga tctatcttta 360
 ggaacgaatt aagagataat tatagttcga at 392

<210> 20004
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20004

tgtctntaag tatcaagatt caagaatcaa gagaagactc tatcaagata agtactaaaa 60
 aagtttttca aaatattgag tagcacaaga atttttcaca aaatctttta ccaaagagtt 120
 ttactctctg gtaatcgatt actagaaggt agtaatcgat taccagtagc cagcattggt 180
 ttcaaaaactg atttacaaag ttgtaatcga ttaccataat catgtaatcg attaccaatg 240
 ttttaaaatg ttagatttca aatttcaaga gtcataacta atgataaaac attttcaaatt 300
 catttttaaac ttgtgtaatc gattacacaa tacttgtaat cgattaccg tgtntctaaa 360
 cattnntgat ttcatntaa acatgaagag cacatctttg atgtgaatcg ataccatgac 420
 tg 422

<210> 20005
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 20005

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ctgagggana acttgatgcc ttggtcaacc tagtatttat cttgccttga atcagaaata   60
tgcacctgtt gcaagagtct gtggtctatg ttctcttgca gatcaccata cagatctttg  120
tctctctctg cagcaatttg gactcaatga gcaaccrgaa gcttatgttg caaacattta  180
taatagactt cctcagcagc aaaaccaaca accgcaaaat aattatgacc tttcaagcaa  240
cagatacaat ctaggttggg ggaatcacc ccaatcttaga tggacaagtc ctccacaaca  300
acatcagcct gtccctcatt tncagaatgt tgttgggtcca agcaagccat atgttcctcc  360
tccaatgcaa cagcaacaac agcagtcaca acaaagacaa caagcaaccg              410
```

<210> 20006
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20006

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agcttatact tatattgatg atcatagnnt gagaatcata cactccatgt cccttatatg   60
tgcaattgac ttaagcatat cagacatcat acacaagtat ggccaaccga tgccactctc  120
acaactcatt gttcactac caatccaccc atccaagact tgctacatcc atcgcttgat  180
gcgactcttt actcattccg gtttcttctc tgggcacgat ttggtcgaaa acgaacaaga  240
agtgatcacg tatgagctaa ctgatgcac tagactactc ctcaaggacc acccttttag  300
tttgaggcct ttgttgctag tcacacttga tccaagtgtg attaagtcac ggtgtcaatt  360
ctctacttgg ctcacaag              378
```

<210> 20007
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20007

```
ttcttatgta cttgagagtt ntatcatttc gtgacttccg aagtttggat tctttgacct   60
attcaatagg taaattgatc catctgcgct atttagatct ctctcattca agtgtagaaa  120
```

cactgccaaa gtcattgtgt aatttataca atctgcaaac tttgaagttg tgtgggttgca 180
 tcaaactgac taagttgcct agtgacatgt gcaatcttgt taacttgcgt catcttggtgta 240
 ttgctgatgc tcctataaaa gagatgccga gaggaatgag taaattaaat catttacaac 300
 gtctggatct ctttgtttgt ggcaagcacg aacagaatgg gatcaaagaa ttgggaggagc 360
 tctccaatct tctgtgtcaa cttgaaatta tgaacttoga gattgtctcc c 411

<210> 20008
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20008

tgtatgtgtt acaatgttct taaatttcta tttagttttt aagaacaacc tgtctaggta 60
 atttttttca gaaagacttt taacaaaata agaaaagaaa agtttttcat aattacctta 120
 .tacacaacct aatgatagaa gctctttcat attagttttt ttcaaaagat atttttaaatt 180
 tatgtataaa ctaacattaa cttatagata agtntattta atttttttct tttctatttt 240
 cctttttttac tagtacttct aaatacatct atccaaatag acccttaata ttaatatata 300
 tcaacaatac ttacatccaa atgatcactt aatcaagact tgaaattatt ttatataaaa 360
 taaccagatt aattaaccaa ttacgtgctt ggggtttcatt tctaacaatca atattagtaa 420
 ttatttagaa cattt 435

<210> 20009
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20009

agctngagct gggaattttg atncatggat nnctcaagaa gaagatagat agtgacatgt 60
 ttgtatggtc tgcattgatt gaatagtatt caaagtgtgg acaaatgaat gatgctgtga 120
 tagtggttaac agagtatcca aaaccagacg tgggtcttatg gacttcaata attactgggt 180
 atgagcagaa tggaaatgct gaacttgcac atgcncattt ctcccgaatg gatgtgtttg 240
 agctagtaag tactgatcca cgaacacttg ttaatgctgc ttctgcttgt gacgcagtat 300

ctgattctaa ccttgaaga agtgaacatg gaattgtcaa acgaaagggt tttatactaa 360
gtatgttttg caattcta 378

<210> 20010
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20010

gcctcattaa actatatatt tcccgaagggt ttttttttta taagcctcct atttttaatg 60
gcgtgggtta ccattattgg aaaccccgca tgcaaatttt tatagaagca atagatctaa 120
atatctggga agccatagaa attcggccct acattccac tatggtggaa gcaaatacaa 180
ccatagaaaa aactatgaaa gaatggagtg aagatgacaa gaaattagtt caatacaatn 240
taaaagccaa aaatataatt acatctgctt tagggatgga tgagtacatt agggatctaa 300
attgtaaaag tgaaaaagat atgtgggata ccctacacgt aacacatgaa ggtacaacaa 360
atgtaaaaag atctgggata aatacattga ctcatgaata tgnaatattt agaatgaatc 420
ccaatgaaag catatatgat a 441

<210> 20011
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20011

agcttgtgca tccaatactc ctgatgagga tgtcccatat gctcttaaaa ctggactgat 60
ccatttgctt cgaaagtntc atggccttgc aggtgaagac ccgcaaaaac atctaaaaga 120
attccatatt gtctgatcca ccatgaaacc cctagatgtc caggaggatc acatatttct 180
gaaggatttt cctcattctt tagagggagt ggcaaaggac tggctatatt accttgctcc 240
aaggtecatc acgagctggg atgacctcaa gagagtattc ttagaataaa ttttccttgc 300
ttctatgacc acaaccatca gaaaagatat ttcaagaatt aggcaactca gtggagagag 360
cttatatgaa tactgggaga gattcaagaa actatgtgcc agttgccctc acca 414

<210> 20012

<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20012

accgaggatc ctttaagtcgc ctgcagcatg caatttttggg ttatanagac accgtctcgt 60
agtcacatga gagatttctg tcttacaaca tatgcattag tagatataag gactaagctc 120
gatgataaat ttgtcaaatg tgtattttatt ggctatgcta cttagtcaaa ggcatacaga 180
ctgtataacc cactaactgg caagataatt gtcaatagaa atgttgtatt tgatgaagat 240
gcaagctggg ttctgggagga atgtgaaatc agtaacagtg tttagcagaa atcagtcagt 300
tttgatgggt cataagaggt ctcaaagtgt ccagactatg atcacactcc aagccctcat 360
tcaacgccat caagccagtg atcattagct ccttcaagcc atggatcatc tagctcatc 419

<210> 20013
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20013

actcaagctt atcacacaaa ggtgttgctt tgtgtggagg aaccattntc tttggttttc 60
tctctgactt tnacaataag tatgtggtca agaaacacca cttgagtcac gacacccgtt 120
ccagtggaga caataattga ggttccaagg gtgttagaca tcatggttgc atggtaggca 180
aacatctcac tcatgtgggt cttcaacact tgaccaatgt taggtggcat tttaccactt 240
gggtatagtgg cttttgtttg caatgctact atgtgcctta cttgcacaac ttttagtggg 300
aacttttcat aagctgtttc tctagacaac attattccgt tagaaccttc ttgaacaaca 360
attactaaat atgatactc tattctgggt agagtcgggt gaacaatcat gttgtctagc 420
atatgtgatg ccacaataac agtcttttcc atgcttagac acaagtttat tatc - 474

<210> 20014
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20014

tagtcaagct aagcactaac aatctccnc tttgggtaat ttgtctaaat cataacttaga 60
 cacttcctga gcaggtacga gcagttatgc aagtgggatc agcaacttcc attatcagag 120
 taatcaagca cagcggaatc tgtagtttag acaagttgca aatcgtttcc aggatgtcaa 180
 gacatctcac atgacatctg ctttctgctt ctgctcccc tgtctccatg cttactgcag 240
 carcttctaa cagctactag tcttttccag gatgtcgaga catclcatgt gacatcagct 300
 ttttgctccc cctgtcttca tgtcttact gcagcatctt ctatcagcta ctagtaqctt 360
 acatcagtc tcaacagcag cagtctcccc ctcaaatca tgaatcatgc atacatcgna 420
 tcctacttct canaatcata catcatgcat aatgctacta 460

<210> 20015
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20015

aactcggatg tccgattcag ggcataata tattgagact tttgatattg aataacagaa 60
 gctctcgaga gattcgaatg gtcataactt ttcacacgga tgtccgattc gggcgcataa 120
 tatgtcgaga cgctcganat tgaacaacgg aagctctcga gaaattccaa tggtcataac 180
 ttttcaactcg gaggaccgat tcaggcgcat aatatatcga gacgctcgaa attgaacaac 240
 ggaagctctc gagaaattca aatggtcata acttttaact cagagggtccg attcaggcgc 300
 ataatatatc gagacgctcg aaattgaaca tcgaaagctc tctagaaatt caaatgggtca 360
 taacttttca cttgg 375

<210> 20016
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20016

tgtctttaat tccaagttaa atgggtattat ggagtaaaat atacctttcg aagttgatca 60
 aatccattaa gttgattaag cagctccatt agcgttctct gaatttcacg atctgcactt 120
 gttccctcat tgaacgcagc acctccaatg gcatcaatct catccataaa aatgatgcac 180

gactaatcaa gaaaagtata gatttagaac atgtntaaat tagtatgtgt aaacctatag 240
gaagacaatt tcgcacaagt acctcacctg gtgatcacgt gcataaccaa acatctctct 300
cattaacttg gcattttctc caatgtactt gtcaattatg gcaactggccg aaacaaccta 360
catcegaata 370

<210> 20017
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20017

tattacttnt agaccaaata gaaactatat tctcatgtaa tttatagaat gactntatng .60
aaaagatgct tataatgtga tcgtattang ataaagatgt attcangtca ttggctaaaa 120
tttttataca taggttaaaa tgtaattctg atttctttat tttataaat ccatgatttt 180
agtttccatc ttttaaaatt gagatattta gtccttcaat tttctaagat tcttaatttt 240
ggccaattca ttcatttgag atgggttaatt gttaattgat taacgttgat catttatctg 300
gttttttatt ctcatTTTTT tattaccgag taaaagaatt ttaaaaaaaaa aatatttgac 360
gatattggtc cncgtgtctac ctgggtgagaa tcccaaagct gcccaaatat anggatctat 420
g 421

<210> 20018
<211> 206
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20018

atgaattgcg ttttcgttca tgtgtcctcc accctcgagt tcggagctat gcgtagtgat 60
tgcttagtgc aattctccat tctcaaactt tttcggagcc ccatgaatta tgtnttcgtt 120
catgtgtcct ccaccttcga gttaggagct atgcgtagtg attggcttag gcaattctcc 180
attctcaacc tttttcggag cccatg 206

<210> 20019
<211> 429

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20019

gccttcacag cccaccacca acatctatgc cagatanatt gttaatatat aagtcggaaa 60
actcgtgact tgaagacatt ctggtgtaag tgatgggatt agcgttcctg aaactgaa 120
actcattacc cataactaat gaccacagaag aaccagcttc tgttggtggt aagcagtatg 180
agacaactcc tccaaatgtg gcattagttt gagataccaa tgagaggtaa cttcttccca 240
accccataag gccagagact cctccaaata gacctttggt gttcctaccg acaccaaata 300
caaatcact cactgaaaca cctccaagac taagtgttc aacacctagc tcaccattag 360
tgtaagatcc atcaccatag ttaaccacat agttacaagt tgatggatta ctacttccac 420
aggctcctg 429

<210> 20020
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20020

agcttcaact tcagaccatt tcncaggtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120
ccagatctac ctgtgtcaac tttatcagag agaaatcata cacctttgaa gtattcaagg 180
agttgagcct aagacttcaa agagaataag actgtgtcat caagagaatc atgagtgacc 240
atggcacaga gtttgaagac tgcacgtnta ctgaattctg cacatctgaa ggcatcactc 300
atgagttctc tgcagccatt acaccacaac agaatggcat agttgagacg acaaacatga 360
ctttgcaaga agttgctatg gtcatgcttc atgccaaaga acttccctat aatctctgtg 420
ctgaagccat g 431

<210> 20021
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20021

ntacacattg tgttgngtat tattgattcc tacgattggt aattattact tcnatncnna 60
ccttaaatta ttactttcac gaattntgat tatatttctg agaaaatttt cctagaaatg 120
ttattattaa aatattattt gaatattatt ctcataaaaa atgtttggta aatattttta 180
agtttatttt aatttaaaaa aaatatraaa tagataaata aatgagatag aataaagagg 240
aagtggaaaa ttatttttaa taatttcatg tgaatataag atttccaccc ttatacatga 300
gaataagaaa agatggaaaa atatatgtac aatggatntg tgagaatgaa ttaaccaata 360
actttcttgt tatntcaatt ttattttaa atctttacat tctacaagat attttcaaaa 420
ataacatttc taatcaataa atttctaac 449

<210> 20022

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20022

tgtagggtta aagtctcacg attggcacgt tctcatgcaa catttgtnag ncgaggctat 60
acgagacatc ttgccaaaca aagtcagggt agcgataact cgcattgtgt ttttcttcca 120
tgctatatgt agcaaagtca ttgatccagt caagtttgat gagttggaaa ataaggcccc 180
aattatactg taccagttgg agatgtattt tccctgcttt ctttgacatc atgattcact 240
tgattgcgca tctggtcaga gaaatcaa at gatgtgggtcc tgtttatcta cgggtgatgt 300
accgggttga gtgatacatg aagatcttaa cagggtatac aaagaatcta tatcgtccag 360
tcgcatttat tggtgagagg tacattgcaa aggaaagcca ttgattttgt tc 412

<210> 20023

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20023

actcaagctt tgcattggtg ctgaaatgta atgatgtcat tattnccttt ggatttaatg 60
ttaatatcgc agatgggcgt acatatctaa agatcagtg gagtaagggt atttttctaa 120

ttctgtaagt cggatgatatc ttgtntacaa ctaatgatct tggctcttctt catgaggcaa 180
 taagtatttc tctagacact gtgaaatgaa agatatgggt gagacaagct atgtgataag 240
 gatagaaata ttctgaaata aatcataagg attgttaagc ttgtcttaga gaacatatat 300
 caataaagta ctagagagat ttaggatgga agagtgctca tcatcaccog tt 352

<210> 20024
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20024

agcttaagct tcttcaattg cacaaggctc ttaatatatta aagagtatcc ttgtggaacc 60
 ttaaccaaac gaagacactg acaaaaactt atgttctcct ttntggacaa agtatgataa 120
 gctgggggca agtaaatntt cttcccatca gaccttggat gcaattgtga tcgtatcccc 180
 atctcagcta gatcttgacg ggtattcaac ccacccctcg tcttgccttg aatgttaagg 240
 agcatcccaa tcacactgtc acatacattt ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcta gatcagacca gtacggaaga tcatagaana tggacctctt cttccatatg 360
 caagtcttac tggtatccct tctttgggtc tttccaaata tagtattcag gtgctgaacc 420
 cgtattatac ctgc 434

<210> 20025
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20025

ctatcaaccg ctgcttaact ccttaactgc acaagctctg aaatatttat attttcttga 60
 ggaaccttca cctgacgaag aactgacaa aaacttatct tctccttctt ggacaaagta 120
 tggcaggctg ggggcaagta aattttcttc ccacagacc ttggatgcaa ctgtgctctt 180
 ataccatat cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg 240
 ttaaggagcg tccaataac actgtcacia acattnttct ccacatgcat aacatcaata 300
 caatgtctaa cgtcaagatc acaccagtac ggaagatcan agaaaatgga cctcttcttt 360

catatgcaac tctgactttt atactttctt tgggtcttcc aaatacagtg ttcattgtgt 420
gaaccctga tatacctgct cacc 444

<210> 20026
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20026

agctnngntt cagatatctt tcgngganng ctgcatnctc gtcccttgtc gcatgattgc 60
caaaatccaa taactctgcc actggattat gtgcttcttt tggacaattt gtggaccaa 120
caaccgtgtt gttgtgtgtc atgaccaaact tgccagaact gtacagtctc aagatggcag 180
aggaatcatt tattgggttg ccaccgtttg caaccatac aacatgttgt gacngattat 240
tcttgaacca aatccccagg taacttttgt ttggaagtcc aagattgaag aaaccaagct 300
caaagattcc cttgttgga accatggtct ttccaaaact tgaggattgg gactgtgata 360
tggatgatgt gttgtct 377

<210> 20027
<211> 398
<212> DNA
<213> Glycine max

<400> 20027

gacctataga tactcaagct tgtgcgcatt tgcgatagtg atgttgccgg agatgtttat 60
gttatattat gtaccaccgg attcgtattc cttatgggtg atagtgtttt tacatggagt 120
tctaagaagc aaggcattgt gacactttct acttgtgaag ccgagtatgt agctgcaact 180
tcttgacat gtcatgccat ttggctaaca agattgttgg aggaacttca cttgttgcat 240
aacgaaagca cacagatcta ttagataat agatctgcac aagagcttgc caagaatccg 300
gtgttccatg cagcatgtat gcatatagat acaaggtatc atttcattag agagtgcatt 360
accgataaag aactataatt gactcatgtg acaactca 398

<210> 20028
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20028

taagctcctt caactgcaca aggctcttaa tattttatta gtatccttgt ggaaccttca 60
cccgacgaag acactgacaa aaacttatct tctccttttt ggacaaagta tggcaggctg 120
ggggcaagta aattttcttc ccacagacc ttggatgcaa ttgtgatcgt gggcccaaa 180
cagctagatc ttgacgggta ttcaagccgt ccttcgtctt gccttaaagt ttaaggagcg 240
ttccaatcac actgtcacia acattnttct ccacatgcat aacatcaata caatgtctaa 300
cgtcaagatc agaccagtac ggaagatcaa agaaaatgaa cctcttcttc catatgcaac 360
tcttactttt atccttcttt tgaggctctc caaatacagt attcaagtgt aaacccgctc 420
ata 423

<210> 20029
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20029

tgcttcttat ttgatccagt agaggaggag catacaacct atttcactca agtcacaccc 60
aggaactctg gcacaagaga cttggtcatt gccatcttga aagaatgcta aacatgaaaa 120
aaaggaaata tgcaaaagaa aatttgaaga agtttcaaata ggaggaatac aaatctgtta 180
gcacaccaat gaatcaaaat gacaagttta gcaaggaaga aggtgttgat aacattgatg 240
aaggatatta taggagcttg attggatgtc taatgtatct cactacaaca aggccaaaca 300
ttctatttgc tcaaaagaac aaaactggaa ttnttggtga caatcaagta gccattgcta 360
ttgcaaacaa ttccatgtgt catgggaaga ctaaacattt caacatcaag ttctatta 418

<210> 20030
<211> 226
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20030

togatatatt acgcgactca atcagacatc agagtaaaaa gttattgtcg tttgaatntg 60

caacgaccat caacattcaa tttcgcgcgt gtcgatatat tacgcgactc aatcagacat 120
cagagtaaaa agttattgtc gtttgaattt gcaacgacca tcaacattca atttcgagcg 180
tctcgatata tgtcgcgact caatcagaca tccgagttaa aagtta 226

<210> 20031
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20031

agctntagtt ttacccttgc agaattatct aagagctgct tagattgtgg cctcaaccag 60
tcaatgaaca tattcagctg tatggggtca gagaatccat gagtaggaag ttttcgcagc 120
aagctacaaa atctttctag ggctttactc anagatntat ctgggaactg gtgaaaggaa 180
gagatgacag cttttccctc tgcagtcttg gactctgaga natatttctt cagaaacttt 240
tccacaactt catcccaagt cctcaagcta ttacctttga atgaatgtag ccacctcttg 300
gcttctccag atagtgaaaa tgaaaataag ttgatcctaa caacatcttc tggca 355

<210> 20032
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20032

gcattcccta tatgttctag aatncagtta gtagttttct taaagcatta cacactatat 60
attgcgtaca acaaatatgc aatttgatcc aacgtgtata ccatcttgga tggtaaaagt 120
aggtaaccttc tggaggttgg acaagcttcc gggtatgagg agcggccatt tccttcttca 180
actgtgtcag tatgtcctcc atggtgtact ctctttgcc aattgcaaga agaccaaatt 240
tctttgggtc aacctatttc attcaagtct ataaatcttg tcacaaagat aattagttat 300
taagccaata aaatagacta aattgtctca taatcataca catgagaagt g 351

<210> 20033
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20033

tctgaggagg tgtctcagga ctgcgcggct tatcgctgta gttgtgcttt ccaaggttgt 60
gctttcggca tggttgatgt ttgagaggag ggaggatgag cttgagggtg tgtcttctat 120
ggatttgtgt ggttgcgttc ttgaatgtcc gaaggtgaat ttggagaagg gctctagtc 180
ttgttcaatc aatgataggt gccagtgccc acaagggact aaagaggaaa cttagcaatga 240
agaaagtgtg tttttgtgtt tgccagatga ggaacaaaag gatgtttctt tctgcattgc 300
gagtgaggaa attgattgtg ttaagtggag aattgctgcc ctttctgacc cttttaaggc 360
aatgctttat ggtggctntg ctgactccaa gatgaggaag attgatntca gcanaaatgg 420
tataagctca cagggtatga cggcagtgga gttgt 455

<210> 20034
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20034

ctcagctgga caaggaagga aatttntcta ccatctacta tgttactatg tttaaatgag 60
cacagatgat tatgctacca caganaaaga aatggtggca attgtctatg cacttgaaaa 120
gtttaaatct tatgtgtag gctcaagagt tatcatctac actgatcatg cagctattaa 180
atacttgctc aacaaggcta attccaaacc aagattgata agatggatnn ttttgttgca 240
agaatttgat ttggtgattc gcgataaaaa gggatcagag aatgtttag ctgatcatct 300
gtcaagatta gtgaatgagg aagttacagc anaagaagtt gaagtgagag atcaattccc 360
tgatgaatca cntattttaa taagtgaaag accctggt 398

<210> 20035
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20035

agctnggatc tcatntctca tnccttatca acnnncann gctatgagtc agtgtagtta 60
ggggtagtgc caatttagaa aatccctcat tgaatttgct ataatagcca gccaacccca 120

agaaactttg aacttctgtt ggagttgtcg gttgttgcca ctcttaacc gactccactt 180
 taattggatc cacagcaacc ccatcttttag aaatcacgtg ccctaagaac tgcactttct 240
 ctaacaaaaa ttcacatttc gacaatttgg cgaacaattt cctatccctc angatatgca 300
 acacatttct caagtgcctg tcatgctcct ncttattcct tgaatacact atgatacact 360
 caatgaacac 370

<210> 20036
 <211> 388
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20036

catccaatac cctgatgagg atgtcccata tgttcttatt attattattg gtccattngc 60
 ttccaaagtg tcatggcctt gcangtgaag acccgcacaa acatctaana gaattccata 120
 ttgtctgctc caccatgana ccaccagatg tccaggagga tcacatattt ctgaaggcct 180
 ttccttattc tttagaggga gtggcaaaag actggctata ttaccttgct ccaagggtcca 240
 tcacgagctt ggatgacctc aagagagtat tattagaaaa aattttccct acttccagga 300
 ccacagccat cagaaaggat atttcatgca ttatgcaact aagtggagag agcctatatg 360
 aatactgnga gaatatttaa aaactatg 388

<210> 20037
 <211> 393
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20037

gctggctatt ataganagtt cattgaaggg attttctata ttggcattgc ccctaactaa 60
 gtggactcgt aagaatgaga agttcttctg gaatgagaag tgtgatcaaa gtttccaaga 120
 gttgaagagg cggttgacga cagctccagt gttaattttg cccgacccta agagaacatt 180
 cgaagtgtat tgcgatgcaa gcgggcaagg cttgggggtgt gtggtgatgc aagaggggaag 240
 agtagtggct tatgcttcgc gtcaattacg tctcatgaa tntaactatc cgactcatga 300
 cttggaacta gcagcggtagg tctttgcctt aaagatttgg aggcatattt tgtacggtag 360

ttcgtttgaa gtttcagtga tcacaagagt etc

393

<210> 20038
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20038

agtcgntgca acatgatcat acattcatgg attgngattt attatcacac tcaatcggcc 60
agagcatagt gtttttggan aatgtcgctg atgttcggaa tgatttgaac gagagattct 120
ctcaaggaga cttatcaga atttctgaac ttcaacaaga gatatatggc ctcaggcaag 180
gttccttctc tgtcactgaa ttttattctg agttaaaaat actttgggaa gaactttaaa 240
catatatgcg tattccatgt tgttcctgta ccattaaatg cacctgtgct gcaatgagaa 300
atgccagaca ttntcatact cttaattatg ctataagaat tttgactggg tngaattgaca 360
atttttcagt agtgaaatct cagatcctna ctatggatcc actgcctagt atgaacacaa 420
tttttc 426

<210> 20039
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20039

agcttaaatt tgcggttgta tgacttanag tactaacaga gcattttaga ggggtntac 60
ttntnnmtgt ttgaaaaact tacataatta gcataaatat ttttgaaaca atttttaatt 120
aaaaaaaccg tctttcataa aacacacaaa cagtaggcac taaaaccttc ccaaattgcta 180
agacaacaaa ggctacatta caaacaaggt ccagtctaga gcaacacatt cacttgaagc 240
aagttccaaa gtacctcatt agaacagaag cagcgataaa catgaccgga ttggtgtagg 300
ttctccgcat attgtttgta taaagaattc ctctcagact gcctataatg accataatcc 360
cctccaacac cangccctaa canattcatc acaaccacaa aaaatacaca cttaaccata 420
aacaaaaat 429

<210> 20040
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20040

agctttaaact ttcatttcta gcgtttcggn atataacggg gactcaatca taqarccgag 60
 taaaaagtta tcgtcgtatg aattggctta aagcttaaac attcaaattt gagcgtctcg 120
 ttatattaca ggactcaatc agacatccga gtaaaaagtt attgttcttt gaattggctc 180
 agaggttcaa cattcaattt tgagcgtctc gatatattac gggactcaat cagacatccg 240
 agtaaaaagt tattgtcgtt tgaattggct cagagcttca acattcaatt tcgagcgtct 300
 caatatatta cgggactcaa tcagacatcc gagtaaaaag tta 343

<210> 20041
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20041

agatactcag cttgagccat tctaanataa taacttntac tcggatgtct ttattgattc 60
 ccgtaataata tcgacacgct cgaaattgaa tgttgaagct ctgagccaat tcanacaaca 120
 ataacttttt actcggatgt ccgattcagt gacgtaatat atcgggacgc tcaaaattga 180
 atgttgaacc tctgagccaa ttcaaacgac aataactntt tactcggatg tctgattgag 240
 tcccgtaata tatcgagacg ctcgaaattg aatgtggaac ctctgagcca attcaaacgg 300
 caataacttt ttactcggat gtctgattga gtcccgtaat atatcgagac gctcaaagtt 360
 gaatgttgaa gctctaagcc aattcatacg acaataactt ttactcgga tgtctgattg 420
 agtcccgaat ataacg 436

<210> 20042
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20042

acatctatcc tgtgtttcag atattngaac gggctatccg caacaaataa atacgtaaca 60
 agtcaattca agaaattggg agaagagatc ctgtctcaat ttaactagtt catgtcaatt 120
 tgattgctaa ccttcattga agttaacttg ttcaatgctt ccagctacac cataaccctg 180
 gattacattc acatctttta caaactgagg tgagagcttt ggaagcaaat ttctggagtc 240
 tacaatcaca gccttgaaca tgcctgatgg ggc, 300

<210> 20043
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20043

tgaagatgtt gtgctcanag tctctggatg atacncttcn ttagacttt ggagtaaacc 60
 ttgggttctaa gatgtggcaa cataagtgtt atcaatctaa caaaaaatcc tatcatgcat 120
 tctacgacta aacacataga aataatgcat cattttctta gagatcatgt gttaaaaggt 180
 gactgctaca ttgagttcat agatagtggag cattaacttg cagacatttt cactanacca 240
 cttgctagag ataggttctt tntcattaca aatgatatag gcatattaga tgcaccaac 300
 ataaaataac ttctatttg cataatgtgt gatgcacatn gctatttgag acgatgacta 360
 atttattctg gagtctctac tttaatcaat caccaagtag tttaatcgat tacttctctc 420
 tcgctaaagt gtcagaagta acaagacact t 451

<210> 20044
 <211> 327
 <212> DNA
 <213> Glycine max

 <400> 20044

tttcttcaact tatgtttgta tggctagaaa caagcaccta ggcagtggta caagaagttt 60
 aatgagttta tgagcaactc aagattcaaa agatgtgaca tgggccattg ctgctatgtt 120
 aaaaaatata ctaatagtta tggtatcctt gttgcgtatg tcgatgacat gttgattgca 180
 ggatctatta tgatagaaat taatatgttg aatcagcagt tggcagaaaa ctttgaaatg 240
 aaggatcttg ctcccgctaa acaaaatctt ggtatgagaa ttcttacata cagatcataa 300
 tggaattttg agctgtctga agagaaa 327

<210> 20045
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20045

agcctcaaga ttcaatntct agcgtctcga tatgttacgg gactcaatca gacatccgag 60
 aaaaaagtta ttgtcatttg aatntgctca gaggttcaac attcaatttc gagcgtctcg 120
 atatgttacg ggactcaatc agacatccga gtaaaaagtt atggtcgttt gtattggctc 180
 acagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagacatccg 240
 agtaaaaagt tatggtcggt tgtattggct cagagctgca actttcaatt tcaagcgtct 300
 cgatatgtta cgggactcaa tcagacatcc gagaaaaaat tattgtcgtt tgattggctc 360
 agagcttcac attcaatttc gtgcgtctcg atatgttacg ggactcaatc agacatccga 420
 gattaaaagt attgtcgttt gaactgctc 449

<210> 20046
 <211> 157
 <212> DNA
 <213> Glycine max

<400> 20046

ttcttcctta ttatgagcac ctaacggact actgggagaa agtatgacca tctgaatctc 60
 tcgagagctt ccattgatca attttaagct tctaaatata ttatgcacct gaatgatact 120
 tgagactgaa aagttatgac ccttgggaatt tctcgag 157

<210> 20047
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20047

tagctngtat ctatgcaaa cggcaataac gttgtactcg gatgttcgat tgagtcacgt 60
 aatacatcga aacgctcgaa attgagaaca gaagctctgt gcatattcaa acgacaatac 120
 attttaactc ggatgtccga ttgagtcccg taatatatca agacactcga aattgagaat 180

aatagctctg aacaaattcg aacgacaata actttttact cggatgtccg agtgagtcca 240
gtaatatatc tagacactcg aaattgagaa tagaagagct gagcaaattc aaacgactat 300
aactttgtac tcggatgttc gatggagtcc cgagcgtctc gatatattat g 351

<210> 20048
<211> 380
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20048

agcttccatt atgagctcta gtttcttggc cctccaccaa ggaaccagta gtaacattgt 60
catcctatga agctgagtat attgcagcct cagaagctgc atgccaagca gtgtggctag 120
atgccccgat gaagaaattg caactggana aatcatgtaa agtgaagttg ttggtagaca 180
ataaatcttc cattgattta gctaggcatc cgacttctca tggaagaagt aaacacatag 240
aaacaaagtt ccacttccta agaatgtcag caatgagaaa ctgaagattg acattgcaga 300
actgaaattc agcttgaaac atactcacta agactttgaa gctagaaatg tntagatgtt 360
taagagattc cattggaatt 380

<210> 20049
<211> 438
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20049

agcttgaatg tgcgtacccc accatttttt catagaaaaa cactggtaat gtgtctacta 60
ttactatgat catctctttc tccgtcatta agggtgccat atgggctgcc aggtctctcc 120
acctttgggc atattctttg aaagattcat gccccctctt gcatatgctc tgtagttgca 180
tcctatccgg agccatatca gaattgtacc gatactgcct aacgaaggca cccattaggt 240
ccttccaaga atggactcan gaaggttcca agttagtata ccangtgaca actgccccag 300
taagactttc ttgggagaaa tgtatcagca gtgtctcctc ttttgcgat agcccccatc 360
ttctgacaat acatcttttg atggttcttg gagcaagtag tccccctgta cttgtcaaat 420
ttcagcacct tgaacttg 438

<210> 20050
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20050

agcttgcata tcanagattt gttggaggaa tcaaattctg gaggctgctg catgtacact 60
 tcttcttgta gaatgccatg gagaaagaca ttgttcacat ccagctgctg tatgggccag 120
 tgataggtga cagccaaagt gagaagaagt ctaacagtaa taggcttaat aactggtgaa 180
 taagtctctt gaaatctgtg tcatattgct tgagggcaaa gttgattgag gcttgtgatt 240
 anatgaagag gaagagggaa agaggtcata cggaaatctg gactcattga acaccacatc 300
 cttagatatg tagattctgc cttagaagaa agacattagt agcctttgtg cgtangagaa 360
 tatcccagaa aatgcattct tgagactgaa ttgngagtta ttct 404

<210> 20051
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20051

tagcaatatt gaagccgttg tataggtttg ctgccagcgc tgcctcatc agaccattca 60
 atgcctcagc tactatattg aataaaaatg gagctagagg gtccccttgt ctaagacccc 120
 tttgaggctt gaactccttt gtggggctac cgttgactaa aactganatt gaggctgatt 180
 tcagacaccc ttccatccag ctgatccatt taggacaaaa tcctgttctt ttcagcatat 240
 accagaaaca aattcatgat accgagtcac aagccctttc ataatcaact ttgaatatga 300
 ggcagggtta tggctcctct tagcttcac c aatg 334

<210> 20052
 <211> 242
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20052

attcctgata attcggattc tgagactgtc ctcaaactat ctacaaattc tctgcatggg 60
acctgagagg ttgtctaata naagttgctg ctctgaacta cctttcatat tgacaggcag 120
aaagaattcc aatatgtaat catcatcatt agtataagta ctccttagcc taattgcaac 180
tgcagcattc aaattatact ttgcgtgcat gatggacaag tgggtattca ctaatatcat 240
at 44

<210> 20053
<211> 376
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20053

ctggatgcat tggttaacta ggtaaccag ctgttcttga accanaaatc tgtacctgtc 60
gcaagggctc gtagtttgtg ctctctgtc gaccaccata cagacctttg cccttccatg 120
caacaacctg gagcaattga gcagccgaa gcttatgtc caaatattta caatagacct 180
cctcaacctc agcagcaaaa tcaaccacag cagaacaatt atgacctctc cagcaacaga 240
tacaacctg gatggaggaa tcacccta atctcagatggt ctagccctca gcaacaacaa 300
tagcagcctg ctcttttcta tccaaatgtt gttggcccaa gcagaccgta cattcctcca 360
ccantccaac aacagc 376

<210> 20054
<211> 191
<212> DNA
<213> Glycine max
<400> 20054

actcggatgt ccgattcatg cgcattgagat atcgattctc ttgtatttga ataacacaag 60
ctctcgagag attggaatgg tcataactct tcacaccgat gtccgaatcg ggcgcataat 120
atgtctagac gctctaaatt gatcaacgga agctctcgat aaattataat ggcgcataact 180
tttcaactcgg a 191

<210> 20055
<211> 206
<212> DNA
<213> Glycine max

<400> 20055

tgatgacagc tttccatcat ctgctatata gtgattagat gaacgccacc atacttgctc 60
tgcactgttc ataatgggat ccaccagaa caggaggtct gttcactgtg cctccttctt 120
ctcccatgrg catcagaacc aacctacctc gatctcactc agtgatttcg agcgaccgct 180
ctgataccaa gtgaaattct gataact 206

<210> 20056

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20056

cgacaataac tatgtactcg gatgtctgat tgagtcccga aatatatcga gacgctcga 60
atggaatacc gaagctctga gcaaattcaa acgacaataa ctntntactc ggatgtctga 120
ttgagtcccg taatatatcg aaaagctcga atgtgaatgt agaagctctg agcaaattca 180
aacgacaata actttttact cggatgtctg attgagtccc gtaatatatc gagacgctcg 240
aaatggaata ccgaagctct gagcaaattc anactacaat aactttttac tcggatgtcc 300
gattgagtcc cgtaatatat tcgagacgct cgaaattgaa tgtcgaagct ctgagcaa 360
tctaacgaca ataacttntt actcggatgt ctgattgagt cccgaatata 410

<210> 20057

<211> 251

<212> DNA

<213> Glycine max

<400> 20057

tgcaacactt atatgacgtg gtcgcagctt ttctcttcta tagaataatt atgaccttgg 60
cggcagtaga tacaatccag gttggaggaa tcatccaaat ctgagataga caagtcctcc 120
acaacaacat cagcctgtcc ctcttttcca aaatgctact ggtccaagca agccatatgt 180
tcctctcca atgcaacaac aacagtagca gtcacaacat agacaacaag caactgagggc 240
tcctctcaa c 251

<210> 20058

<211> 282
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20058

tctagtagga attatggtgg ttgagtggca ccaaactcat gatgactttt gcatetcaic 60
cgcaatcgga tggcceaact aaagttgcta atcatattgt tgatcagtag ttaggtgctt 120
ttgtccatat aagaccatca gcttqngggg gtttcctatt atgggaagaa tggtcctaca 180
atacatccct ctattcagct acaagaatat ctccattcga aatcaccttc agcaggaagc 240
cacctaattt tcttcagtag atagtatgta cctctaaaat tg 282

<210> 20059
<211> 392
<212> DNA
<213> Glycine max

<400> 20059

gcccacgct gtgttcatac tctgccagaa cctattatgt taatttatga tctctatcag 60
acactatgct agatggcaca ccatgtaatc tgacaatctc actaatgcac agggagggtca 120
acttctctaa ggaaagccta atattgatgg ggataaagtg tgcgaatttg gtcaatcttt 180
caacaaacac ccaaatagaa tcaaacctt tgtggtcctg ggtagtccta caacgaaatc 240
catggagata ctatcccact tccacttggg tatctctaaa ggttgtaact tacttgaagg 300
tttgtgatat tctatcttag ccttttggtg gactagacac gcatacacia acttgctacc 360
tctctcttat gttgggcccc aaaacattac ct 392

<210> 20060
<211> 278
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20060

ccgagtaaaa gttatagtcg tgggaatttg ctgagagctt caacattcaa tttcgagcat 60
ctcgctatat tacgggactc aatcagacat ccgagtaaaa agtttggtgt ttgaattggc 120
tgagagcctc aacattcaat ttcgagcgtc tcgatatatt aagggactca atcagacatc 180

cgagtaaaaa gttattgtcg tttgaatttg ctcagagcat cgacattgaa ttgcgagcgt 240
ctcgatatat tacnggactc aatcagacat ccgagtaa 278

<210> 20061
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20061

gaggtccaga gactctacaa gatgtgcagc cttttttgat ttaacctttt gctgaccag 60
taatacacta gctntaactc gctattcatt tgagctaatt gtcttcatca tgtttccttt 120
aggttgagat aacctaacc ttttgatttc atattatatt atgggttatgc aggatattat 180
acgactgcc aatgctattta tctntcttca taagccattg gcccaatttc gatctgtttt 240
aaaagcccta agagcacaaa ggcttgcttc aatcggtggt ggatctcttt agaataaac 300
tgaacacatg cactgcctct ccaaaactta tttgcataca tcaactacaga catatatttc 360
ac 362

<210> 20062
<211> 351
<212> DNA
<213> Glycine max

<400> 20062

gatgcacaca cctgtgagca agcgacgaag ccttttatct tctaacctgt gcgaacgaag 60
agcgggagag ctccacaaac acggcgagct accaagagac ctccatgtct tacaaggaga 120
cgacaagcta gctcgatctc gataactcag acatgacaat agctgaatta ctgtatcatc 180
aggcaaacac ttccaatcaa caacccttg cctttgagtt gccaaatcca aaacctcatc 240
ttgaacttca gggagactag actgcaccac attccctatg ctatgtctcg ccagctttcg 300
tctcactcta tgatccatgt ctcaacaaaa tcacagcata cccacaccaa c 351

<210> 20063
<211> 173
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20063

tggtcctaac ttttaactcg taggtctgat tgaggcggat aatatatcga cacgctccat 60
attgaacaat ggaagctctt gagcaattca natggtcata aatagtcact cggagggtccg 120
attcagggcg ataatattatc gagacgctcg aaattgaaca acggaagctc tca 173

<210> 20064

<211> 262

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20064

actatgcaga gaatatccaa gagaaatacc ttcttcagat ttatcatcaa attntcctaa 60
gtgatgtttg gcattattca atacaaaaca tttaaacca aagatataaa gatgtgagat 120
gtttgggttt ttgccattga acaattcata tggagctttc ttataatgg gtcctattaa 180
agccctattt aaatgtaaca tgcagtggta acagcttcaa ccttggcata ccctaatttc 240
gtccggggac ctttgcttga tg 262

<210> 20065

<211> 320

<212> DNA

<213> Glycine max

<400> 20065

ccaagtaaaa attaatggcg ggtgggattg gctcaaagat tcaacattca atttcgagcg 60
tctccatata ttacgggact cattcagaca tccgagtaaa aagttattgt agtttgaatt 120
agcttagagc ttcaacaatc aatttcgagt gtctcgttat atcacgagac tcaatcagac 180
atccgagtaa aaagttattg tcgtttgaat tggctcagag ctccacatt caatttcgag 240
cgtgtcgata tattacgggc gtcaatcaga catccgagta aaaagttatt gtcgtttgaa 300
ttcgtcaga gtttcaacat 320

<210> 20066

<211> 300

<212> DNA

<213> Glycine max

<400> 20066

tcaccaacc ttatatgggc gaatccttca caacagcagc agcaacaata acaaccttat 60
 cttcaaaatg ttgttgggtc agcacacatt acgttcctcc actaatccac caacaacaac 120
 agcaacagcc cccgaaacaa caaactatag atgctcctcc acaaccttcc cttgaagaac 180
 ttgtgaggca aatgactaig acaaacatgc agcttcacaa cagaccatag ctgcccataa 240
 gagcttgact aaattlagatg ggacaattgg ctacacactt aatccacag ctggaccaaa 300

<210> 20067
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 20067

agcttattat ttagatggt gatcatgcta agcttggaga cgaaatcatg aaatttgggt 60
 ggtgccaatg ctttgggtgag aaaatctgcc acttgatcac ttgttgaaac tggtagtagc 120
 ttttagagtgc ctttcaaaag cttctctcgc acaagatggc aatcaatttc caagtgtttt 180
 gtgcgttcgt gataaaccgg atttgaggca atgtggactg cgctttgggt gtcacagtaa 240
 agagttggag ttctggtaag ctgaactctc aaatctgcag aaagatacaa cagccattgc 300
 aactcacaag cagctgaaaa cagagccctg tactctgctt ctgaagatga tctggacaca 360
 gttgcttgct t 371

<210> 20068
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 20068

tcattgatcg tctcgatata tacggttcta ttttacatct gaggaaaaaa gctatggtgg 60
 tttgaatttg ctgagagctc caacattcaa ttttgagcgt ctcgatgtat tactggactt 120
 aatcagacat ccgagttaat agttattgct gtttgaattt gctgagagct tcagcattca 180
 atttcgagcg tctcgatatt ttacgggact caatcaaaca tccgagctta aagttattgt 240
 tgttgaatt tgctgagagc ttcaacattc aatttcgagc gtctcgatat tttacgggac 300
 tcaatcatac atcc 314

<210> 20069
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 20069

actatcgctc cagtgcctagt gtctccctatc ccgagaaaaac cctttgaggt gtatcgtgat 60
 ggatcaaaag tgggttttagg aggagttatcg atgcacaaatg gccaaagtagt ggcttatgct 120
 tctagacaac tcaagactca tgagaggaat tatcccaccc atgatctgga gttggctgct 180
 gtagtTTTTT ccttttagat gtggaggcat tacctgtttg gctctaagtt tgagggtgtt 240
 agtgatcata agatccttaa gtactcgttt agtctgaaaa agttgaacat gcatcaaagg 300
 agatgggttaa agtttcttaa agattatgat tttgagctta gctaccatct caacaaagcc 360
 aatgtagtgg ctgacgcctt gagt 384

<210> 20070
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 20070

gggggggggg tgaattaaga tatccccaac tgtttccctt aattaaaaat ctattccact 60
 ttttactcaa gttatgaatc cccttaatga caatcttctt aaatattaat tcgagcaaag 120
 caacttgatt atgaatataa agcaataata tataaaggag attaagggaa gagaaaatgc 180
 aaactcagtt ttatactggt tcggccacac ccttgtgcct acgttcagtc cccaagcaat 240
 ccgcttgaga gttccactat cttggtaatt ccttttaciaa ggtcttaaca cac 293

<210> 20071
 <211> 299
 <212> DNA
 <213> Glycine max

<400> 20071

agcttcttat ttgtgcttgg tgcattagcg agcccaagag gcatgactag ccattcatac 60
 aaaccaaaact tgggtcttgaa agcggttttg cactcatcac cctccttcat tctgattagg 120
 tgataaccac ttttaagatt aattattgaa aagatgttgg caccatgcaa ctcatcatgt 180
 aaatcatcaa gtctatgaat gtggcgcccta tactttacag aaatgttgta gatggccctg 240

caatctgtac acattctcac gtaccatcct ttgtgggcac caacaacact ggcacaaca 299

<210> 20072

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20072

caaacattaa aaggggagaag gtaatatgt agccgatgct ctttctcggc ttcattgcatt 60

actttctatg cttgaaacaa aattgattgg tcttgaatgt ttgaaaagca tgtatgaaaa 120

tgatgaaact tttagagaaa tttttaaaaa ttgtgaaaaa ttttcagaaa atgggtttctt 180

tagacatgaa ggctttcttt tcaaagaaaa caaattgtgt gtgcctaaat gttctactag 240

aaattttctt gtttgtgaag cacatgaagg aggtttaatg gggcattttg ggatccaaaa 300

gactctagaa acattacaag aacattttta ttggcctcat atganaaagg atgtccacaa 360

attttgtgaa cattgcattg tatgtaaaaa ggcaaagtct a 401

<210> 20073

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20073

agctcangtt ttgaatatga tggcanacct tcataattgt tggtcaacac atacaagctc 60

acttgtaaaa aatcttctac acttggagtg ataacatgca gtcctcttga acccttactg 120

cccactctgt cgtcatggcg agactcaaga aggccaaacag gtntagcctt ttcaatgtac 180

tctanacaaa attcaatggc ttcttctgca atgtacctt caacaataga tgcttctgga 240

caatgtagat tcttgggtata cccttttaag atcttcatgt atcgctcaac cgagtacatc 300

caccataaat aaacaggacc acaacatttg atttctctga ctagatgaac aattaagtga 360

atcatgatgt ca 372

<210> 20074

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 20074

gagaatggac ttcagaagtg tttcanaagt tacaaactac ttcaaggaaa acatgaagga 60
ggtatagata attctttaaa aatttccatt caatcatgtg atgactttga aagtctaaaa 120
ttaaagacaa caaagctttg tcttgaadaa gaggatattt gtaaataaaq atatagtata 180
ttggaagacc ttcagaagtt gaaaaatcaa ctggaaggct tacaaaatga gtatatcaca 240
ctcaataaac ttcattgattg cctaaatgag gaaagatgta atctattgaa agcatgttcc 300
caagtcata agaattatga aaacttggag gcaagtaaac atatgatgta gctccaagta 360
gagcttgtaa gccttggatc tttttcatca atggagtatt ttgcttcttg aagagatcaa 420
tggcagtgga atgaaaaa 438

<210> 20075
<211> 314
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20075

ataaaaggaa cctaattgaa gccaccagta agaaccataa cccgcttccc tccatggatc 60
aaatgcttga gagacttgca gggcaatctt tctattattt tttagatgga tattcgggct 120
ataatcaaat tgcagcggat ccttatgacc aagagaagat agctttcaca tgccccttcg 180
gtgtatttgc ttattgccgc atgtcattca gcctatgtaa tgccncaact actttccaga 240
gatgtatgat ggcaattttt gctgacatga tagagacatg tattcaagta tgtatggatg 300
atttctcttc tttg 314

<210> 20076
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20076

cttaaattgtn ggaagtacac gcgtgggtcta ttgataagat caaagaccag cacaaggatc 60
tgcaagatat ggaatctact ttgaaggagc tattgggtatt gttgttggat tctttgatcc 120

tgttttaaga ttcataggat attgtacctt aattggtgag tttctcacga ccaaggttca 180
 gctcgattaa tggaactgaa aagtcttcac gaggaagaa taagaatatt acagcagttg 240
 tgtgatctac aggtattttt ttcccttaat actatgtaca ccagtatttt aactagtatt 300
 tctttcctac aatgcacgta tgtgtatttt ctttttgctt ttataaggct tgaatgtcat 360
 gatggarca taacacttct aagaatttga agt 393

<210> 20077
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 20077

ccctctcatt cacatgtccc aaccttctga gtcataattt agtctttgac aacctgttga 60
 catagactgc agcaactgat cccatgagca atcctgcaat tagagaatac atgccattct 120
 tttgtatccc tctcatgaat atcaaagagc catttagaac tccattctcc cctttgaaca 180
 cataaccttg tttgtcaaaa tcaactcagag aaatcaaatt tctcttcaaa tctaagacaa 240
 gccttacatt cttgatgact ctctcaacac catcatgaag cttaaaccctc acagacccaa 300
 ctcaagtgat cttacaggac ttgttgattc caagtaggat tgaaccacca acttggtcat 360
 ca 362

<210> 20078
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20078

agcttnggtc ggactatacc aagctctagg acccaggagc ggataaagat ctatatatgg 60
 gctcgctaag ggtagagaga ggaagactat agatttggat caagtaaagt gtgttaagga 120
 tgaagaacgc aaagtcttag tgcataaaaa agatatcaag gaaaggtgga atgtgtattt 180
 ccacaactta tgtaatgatg gatatggata tgactctagc agtctagaca caagagaaga 240
 ggaccggaac tataagtact atcgtcggat tcagaaacag gaagtaaagg aagcgttgaa 300
 tagaatgagt aatggtaagg cgggtggggcc agacaacata cctattgaag tgtggaaaac 360
 tctaggagat agaggtc 377

<210> 20079
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all 4 locations
 <400> 20079

caccacccct cactctaagc cttataagnn gtaangtggt gagtgacaat ggtgagtcgg 60
 tgggggataa gcaagtgtta cttacattct ccatcggaat ttatgttgat gaagtgcctt 120
 gtgatatggt tcccatggaa gccagacatg tgttgcttgg gagaccttgg caatatgata 180
 gagatgctgt ccacaatagg gtcaccaatt gatattcttt cttgcataaa ggtaaaatgg 240
 tagttctctc acctttgtct ccaagtgagg tttgtgagga tcaaataaaa atgagattga 300
 aaagagaaaa agaaaagata ttcaaagtaa gaaaaagtcc tttagagagag aataaccaca 360
 aagaagagaa aacataagag tgaaaccaat tagttataaa gagagtttgt ta 412

<210> 20080
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 20080

agctttagt atacgctaac gacaataaca tttcactcgg aagtccgatt gagtcccgt 60
 ttatatctag acgctcgcaa ttcaaaaccg aagctcgag ctaatgctaa cgacaatagc 120
 atttcactcg gaagtgagat tgagtccgc atatctgag acgctcgaat attaaaaccg 180
 acgcttgag cgaatgctat cgacgataac gtttcactcg gaagtccgat tgagtccgt 240
 attagatcga g 251

<210> 20081
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 20081

gaccatggga acacctctag agcgggggat gttcaatttc tagcaccac atatattatg 60
 agcctgaatc ggacatccgg gtgacaagtt gtgaccatca taatttctct acaccatacc 120

gtgctcaata acgagcgtct cgagagatta cgcgcgtgaa tccgacgtcc gtgtgaaagg 180
tatgaccatc tgggtcgttc gagagcttcc gttgggcaaa atcaagcggc ccgatttatt 240
atacacctg 249

<210> 20082
<211> 417
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 20082

tcctcttagt agggaatata tccttcctaa gatggtgcct taccagtc ccttcattaa 60
gaacgagctc atttcttctt ctatttctt tagtagcata cacctttggt tggttcctaa 120
ccctctcatg caacttcttt acaaactcta accttgattc cccttcttta tgtataaaag 180
aagtgtcaag tgggagggga attaggtctt aggggtgtag aggattgaac ccatagataa 240
cctcaaaagg ggattgcttg gttgttctat gaatccccct gtngtaggaa aattctacat 300
aaggaagata ctaatcctaa gacttatggg ttcctttcag aaaagccctt aaaagggtag 360
atagagaccc attcactacc tttgtttgcc catcaattta tggatgacaa gtggttag 417